

When the peacock came to roost

ters

JULY 3, 2006

www.kansascity.com

LETTERS

Bearden record price

To the editor:

I recently noticed a large number of auction web sites featuring a painting by Romare Bearden, "Circus," which sold for \$1.2 million at a recent auction.

The painting was

done in 1961.

It is a

large

work.

It is

an

important

work.

It is

a

large

work.

It is

MORE THAN 200 AUCTIONS AND 125 SHOWS IN THIS ISSUE

\$1.99

AntiqueWeek

THE WEEKLY ANTIQUE AUCTION & COLLECTING NEWSPAPER

TWO SECTIONIS

C E N T R A L E D I T I O N

VOL. 29 Issue No. 1919

www.antiqueweek.com

Pre-war TVs send strong signal this Week...

April 3, 2006

NATIONAL

Life sentence in murder bid

BLOOMFIELD, Tenn. — A condemned killer sentenced to death in 1998 has been given a new trial, a state supreme court ruled yesterday. The 49-year-old man, who had been serving a life sentence for the 1993 killing of his wife, was granted a new trial by the Tennessee Supreme Court.

The court's decision came after the U.S. Supreme Court last week ruled that the state's capital punishment law violates the Constitution's ban on cruel and unusual punishment. The court said it was up to the state legislature to fix the problem.

John Edward Mullin, 49, was convicted of killing his wife, Linda, in 1993. She was found dead in her home, strangled with a belt she had given him. Mullin, of Perryville, Mo., with whom she had lived for 18 years, was the first Missouri man to be executed under the state's new death penalty law.

On April 1, the U.S. Supreme Court struck down Missouri's death penalty law as unconstitutional, ruling that it violates the Constitution's ban on cruel and unusual punishment. The court said the law was discriminatory because it allowed juries to consider race when deciding whether to impose the death penalty.

Missouri's death penalty law, which was passed in 1994, allows juries to consider race when deciding whether to impose the death penalty. The court said the law was discriminatory because it allowed juries to consider race when deciding whether to impose the death penalty.

REGIONAL

Pictures from The Past

GREENWICH, Pa. — Color is still king in antique bottle collecting, according to a recent survey.

"Color is still king in antique bottle collecting," according to a recent survey.

"Color is still king in antique bottle collecting," according to a recent survey.



For a
hip down TV
memory lane,
read Clicks on
Page 3



Bottlemania in February sale

Customer Appreciation Meeting

May 13, 2006

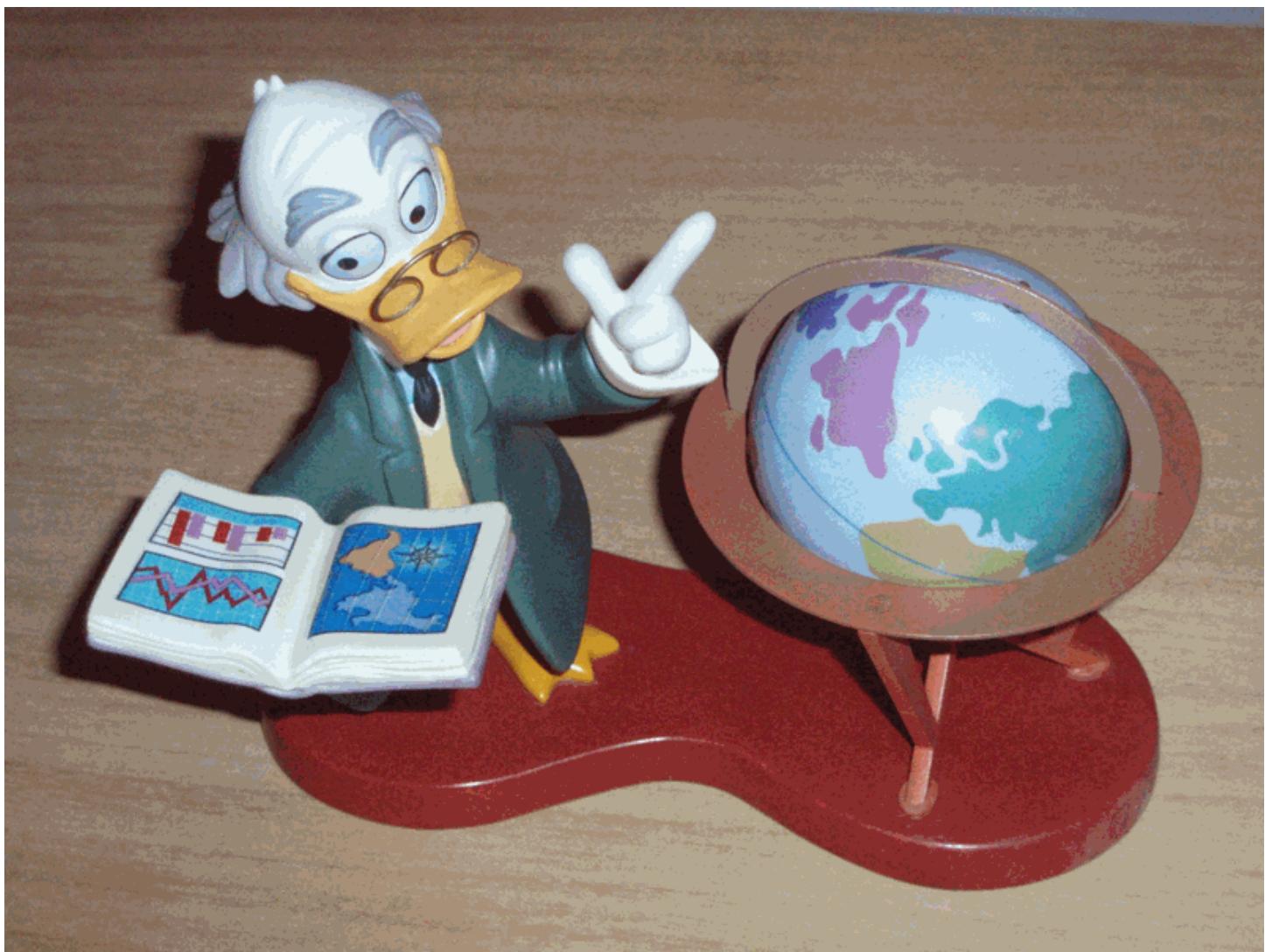
Information on page 48

Exit 76 Antique Mall

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MAGNETIC recordable patterns applied more rapidly than from two banks of a new laboratory technique called "thermoplastic recording." This unique process combines special electronic controls with a standard reel-to-reel magnetic tape recorder to produce up to 1000 words per minute.

Demonstrated recently by the general manager of Electro-Mechanics, Inc., at a recent Model Airplane Show, the TV set-up in which a master micro-machined pattern was recorded onto a magnetic tape, and then reproduced directly from the tape to the screen by means of a cathode-ray tube.

It was demonstrated that there is no limit to the size of the image that can be produced. Theoretically, the resolution is limited only by the speed of the recorder, which is 1000 words per minute. They were informed by authorities that they were interested in military applications and applications to the film industry. Information on standard television reproduction was not available.

It was emphasized that there is no limit to the size of the image that can be produced.

Dr. William E. Glavin, the inventor of

the system, said that recording band

widths of about 50 feet are now possible with his system at 1000 words per minute. This is about 50 percent wider

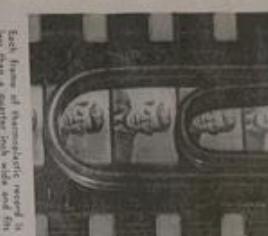


Top photo shows Wm. E. Glavin recording signal from TV set to his personal 35-mm motion picture film. In bottom photo he is producing wrinkle patterns on plastic-coated transparent film.

Thermoplastic Recording

New laboratory technique transforms TV picture signals into wrinkle patterns on charged transparent movie-like film — produces electrical signals and optical images.

Patent 4,303,628



Each frame of thermoplastic wrap is nearly white, while an ordinary paper clip, (left) or a portion of the film itself, will show a "wrinkle" pattern. The pattern is due to the fact that the film is electrically conductive.

(Right) Experimental aspects of the new technique. Wrinkle patterns on a reel of thermoplastic wrapped transparent film.

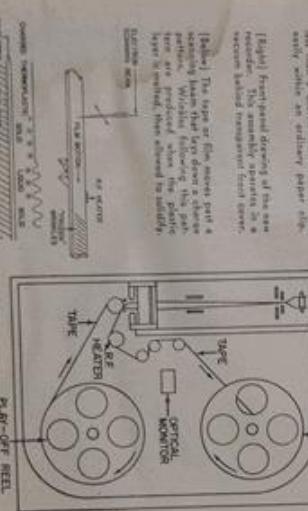
(Below) The tape or film moves past a scanning electron beam, which follows the pattern produced when the plastic base material then allowed to cool.

Heffman offers basic information concerning the use of thermoplastic materials with a maximum melting point of 75°. He also describes the use of the latter, with the former, for direct film replacement.

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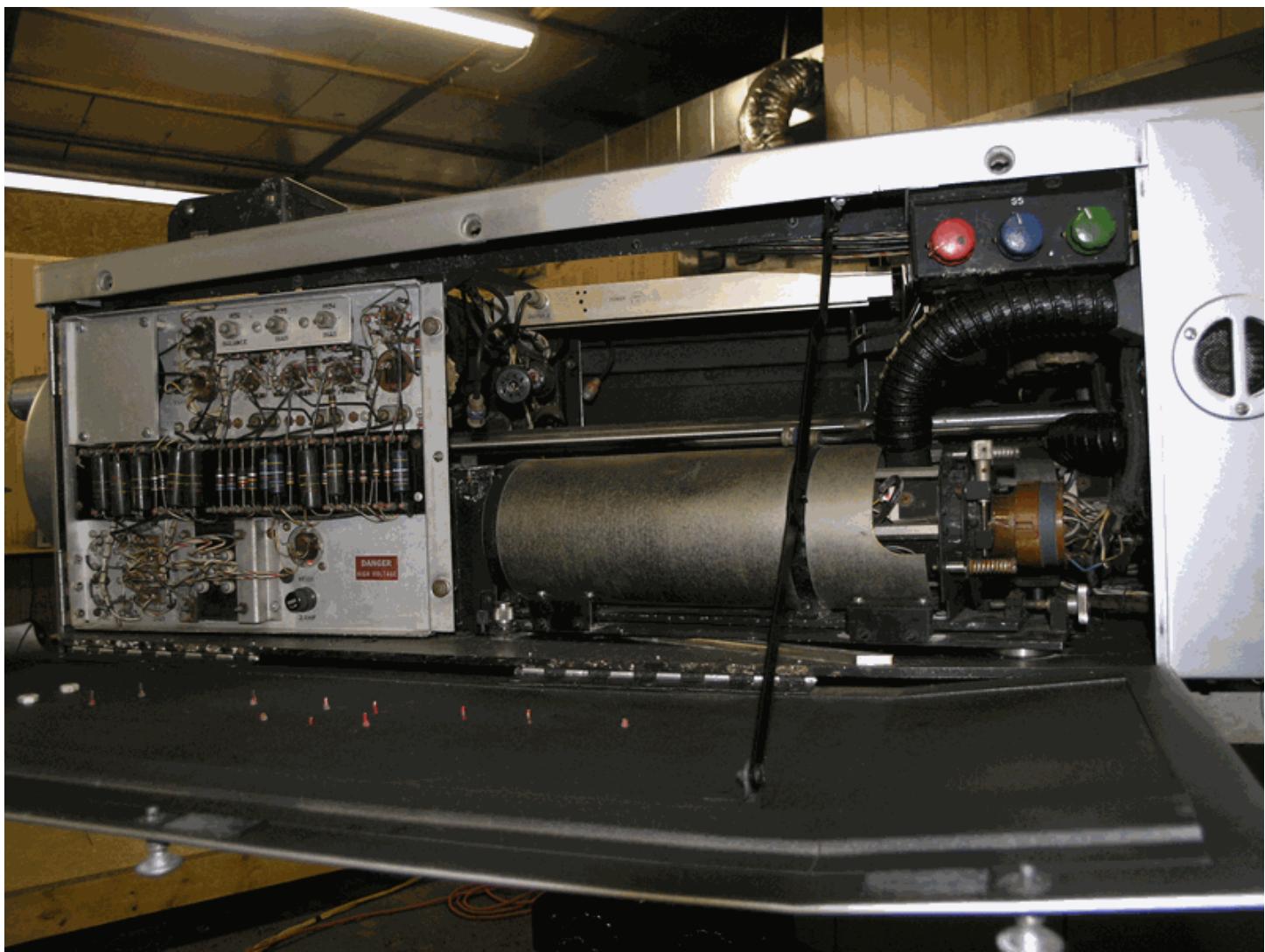
Heffman

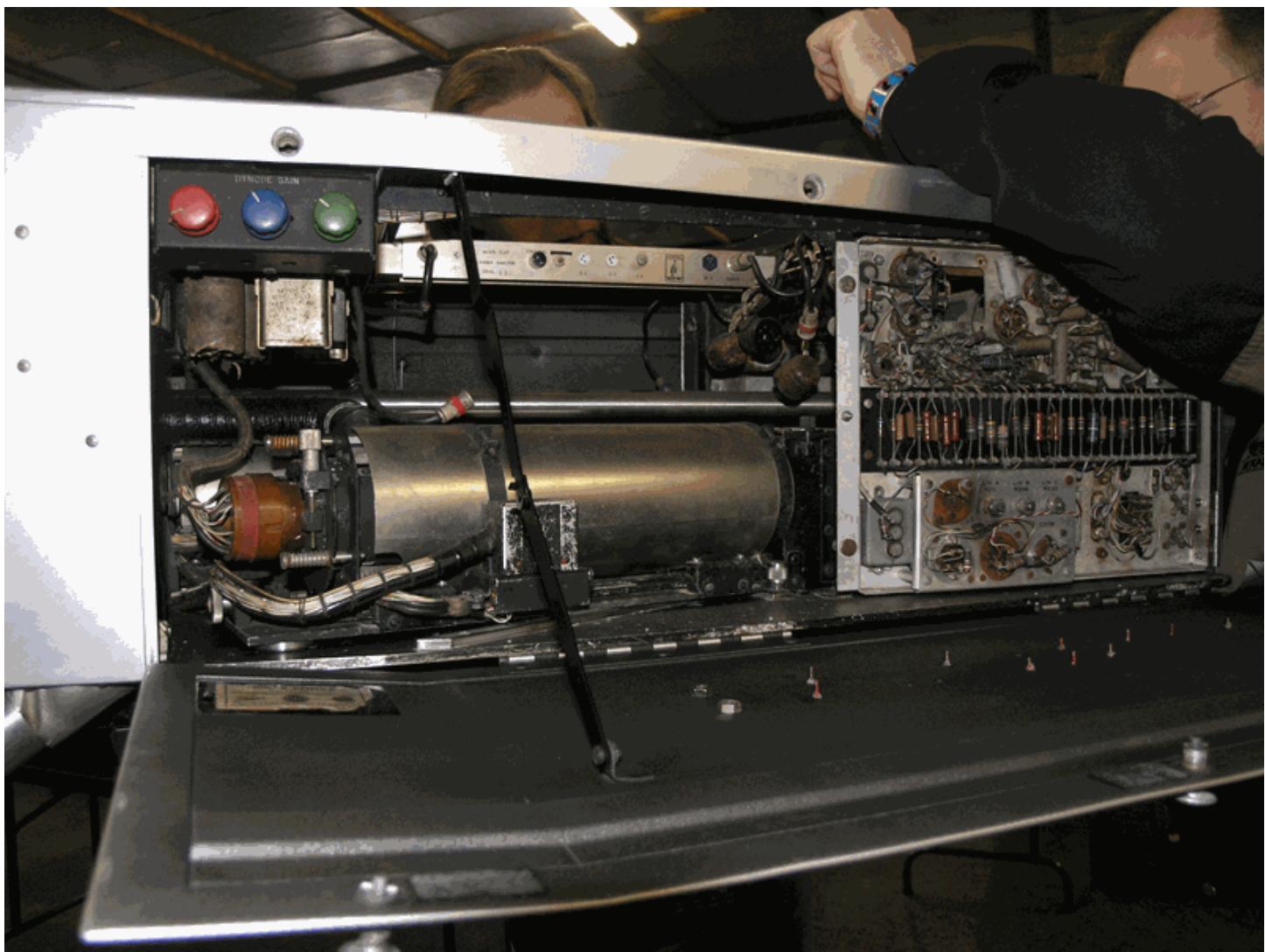
and other companies are developing new techniques for the production of electronic components. One company has developed a new technique for the production of electronic components.

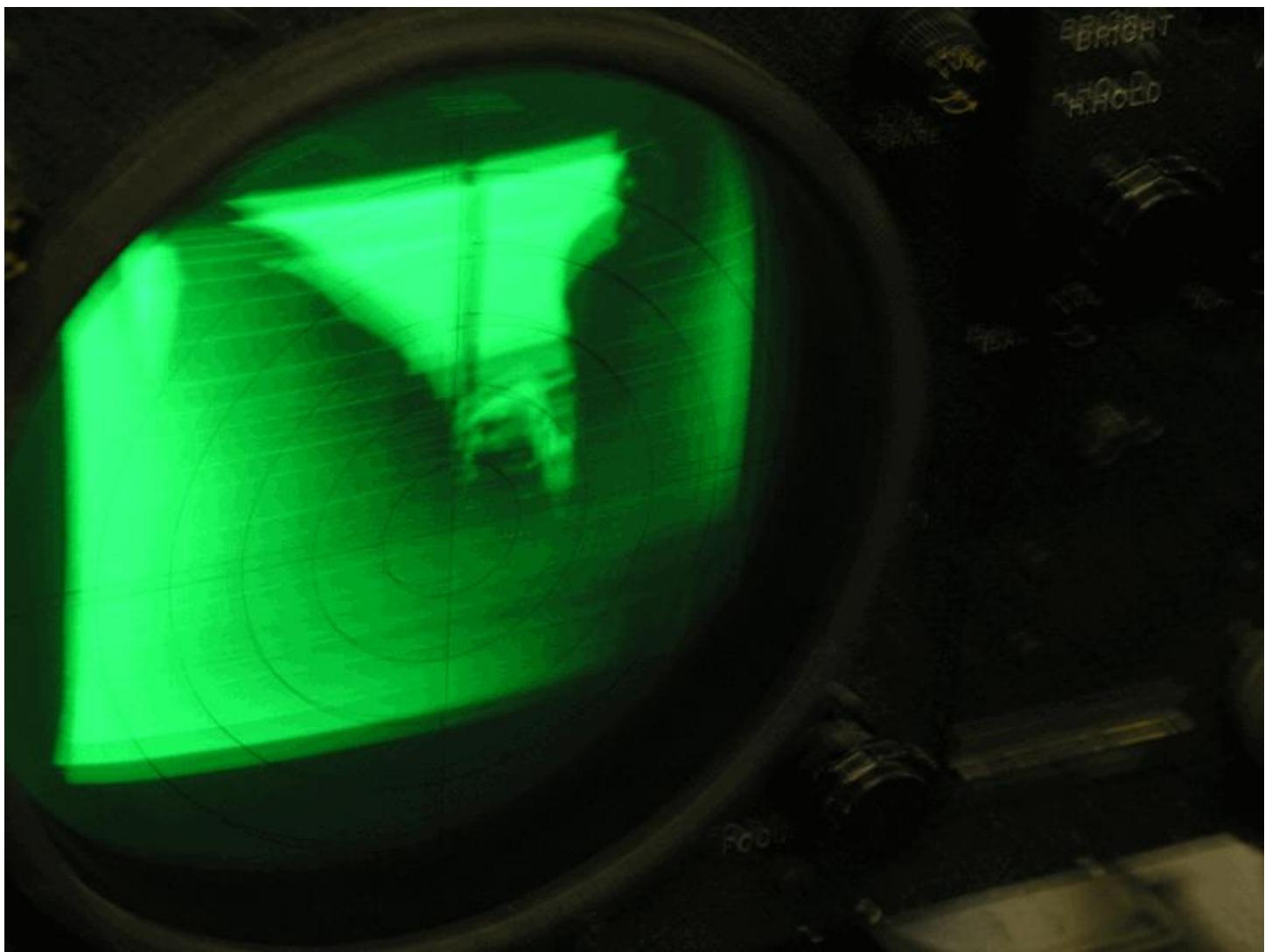


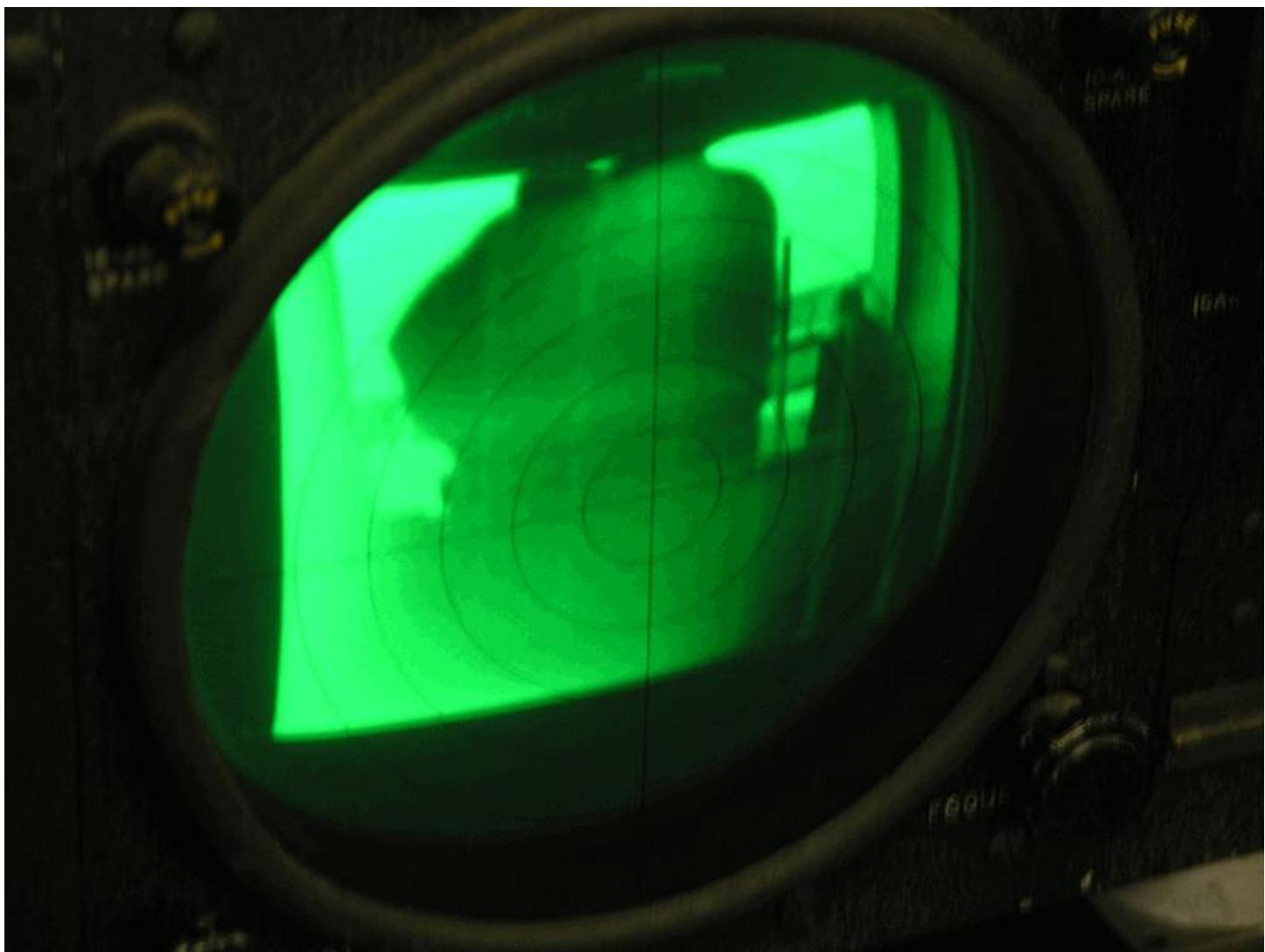
Patent 4,303,628

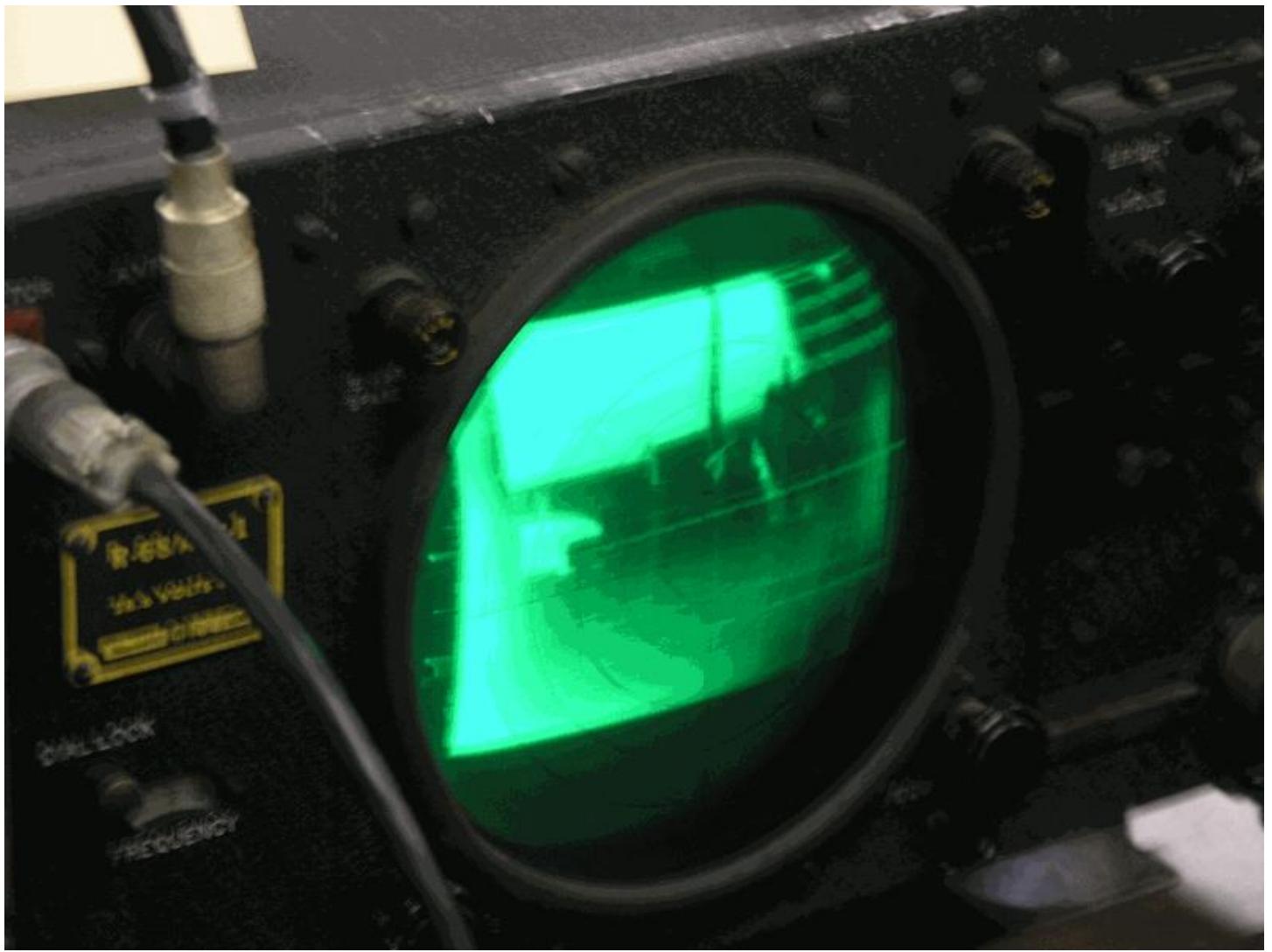
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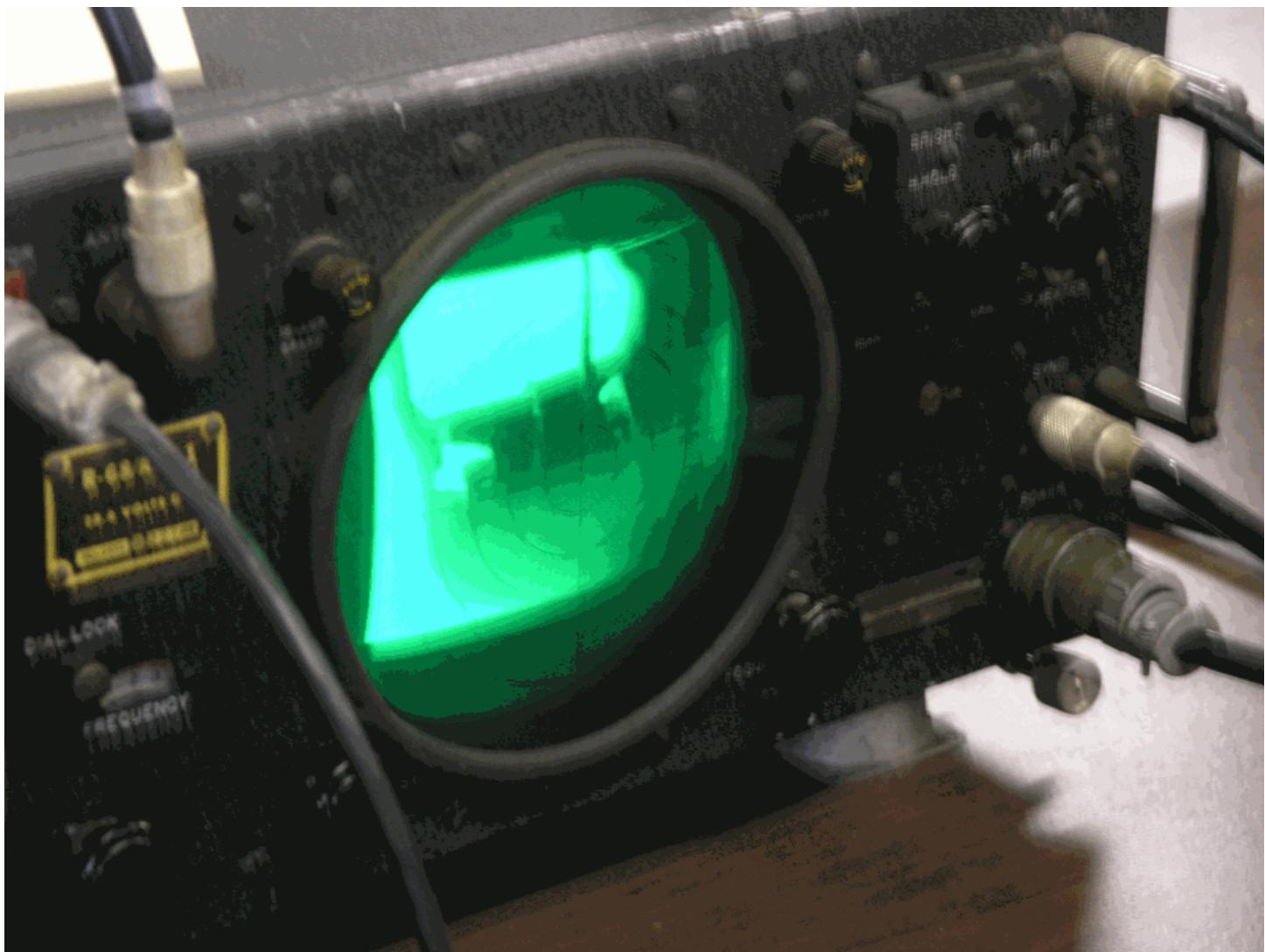




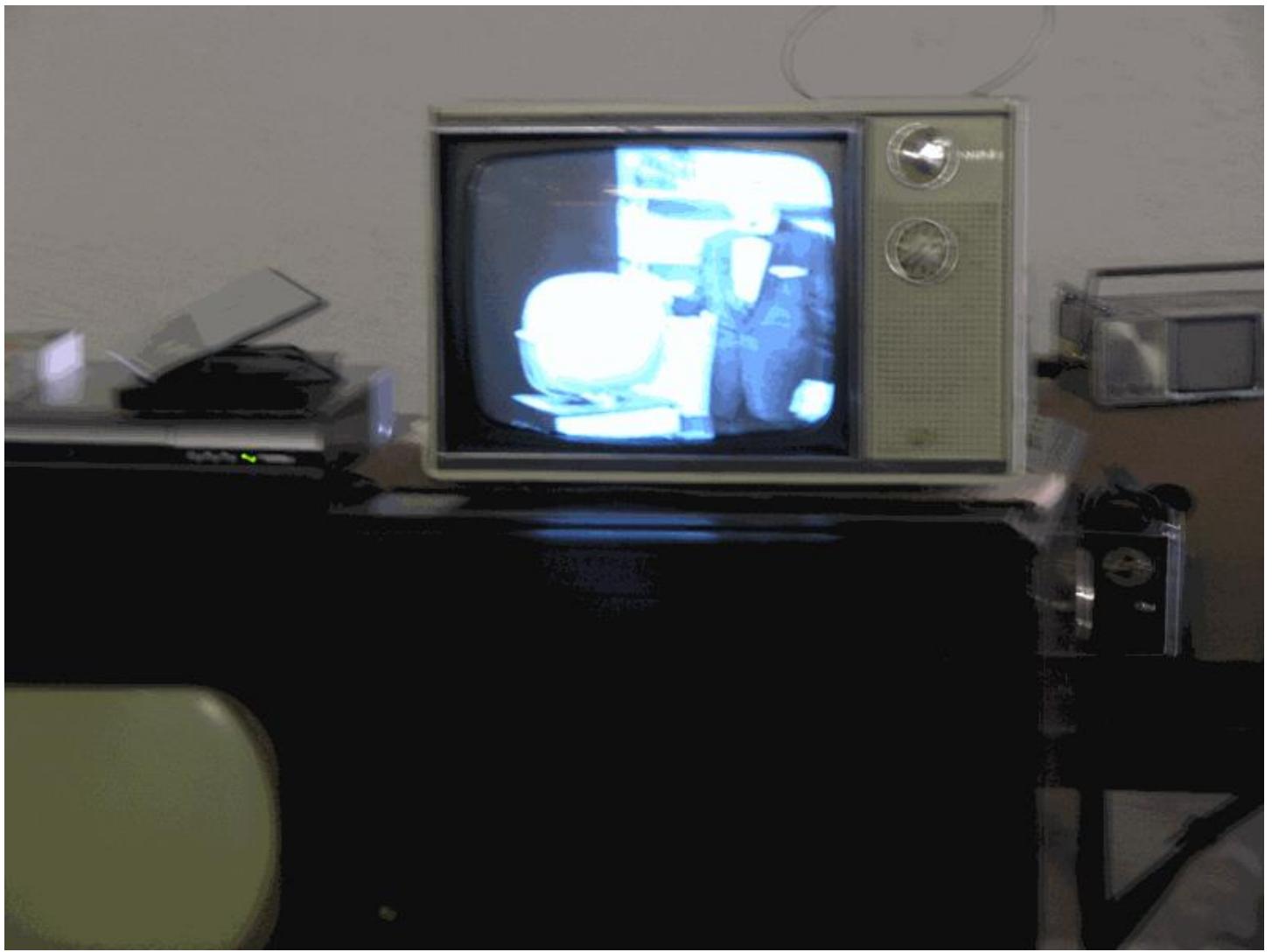




















How RCA's WWII Military Television Development Shaped Modern Warfare

By

Maurice Schechter



How RCA's WWII Military Television Development Shaped Modern Warfare

By

Maurice Schechter





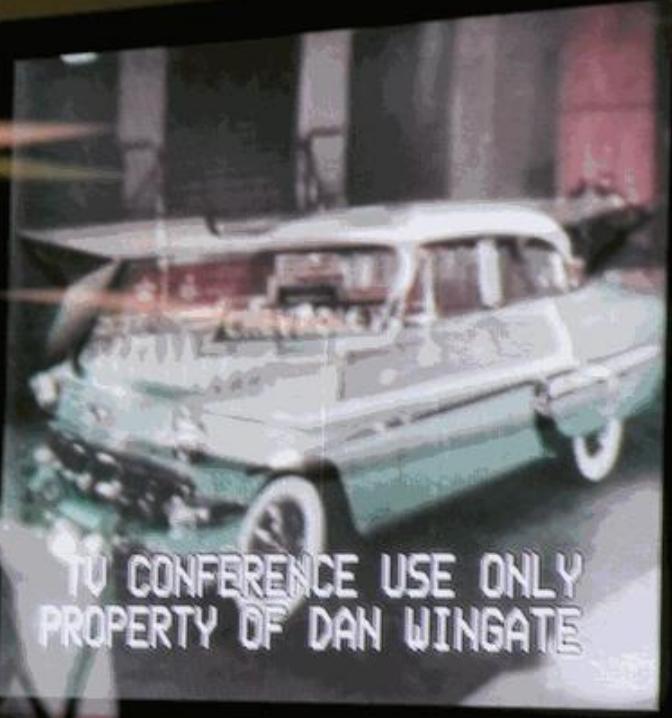
CONFERENCE USE ONLY
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A photograph of a woman with blonde hair, wearing a dark, patterned top, laughing joyfully. She is positioned behind a metal cage or fence. The background is slightly blurred.

**TU CONFERENCE USE ONLY
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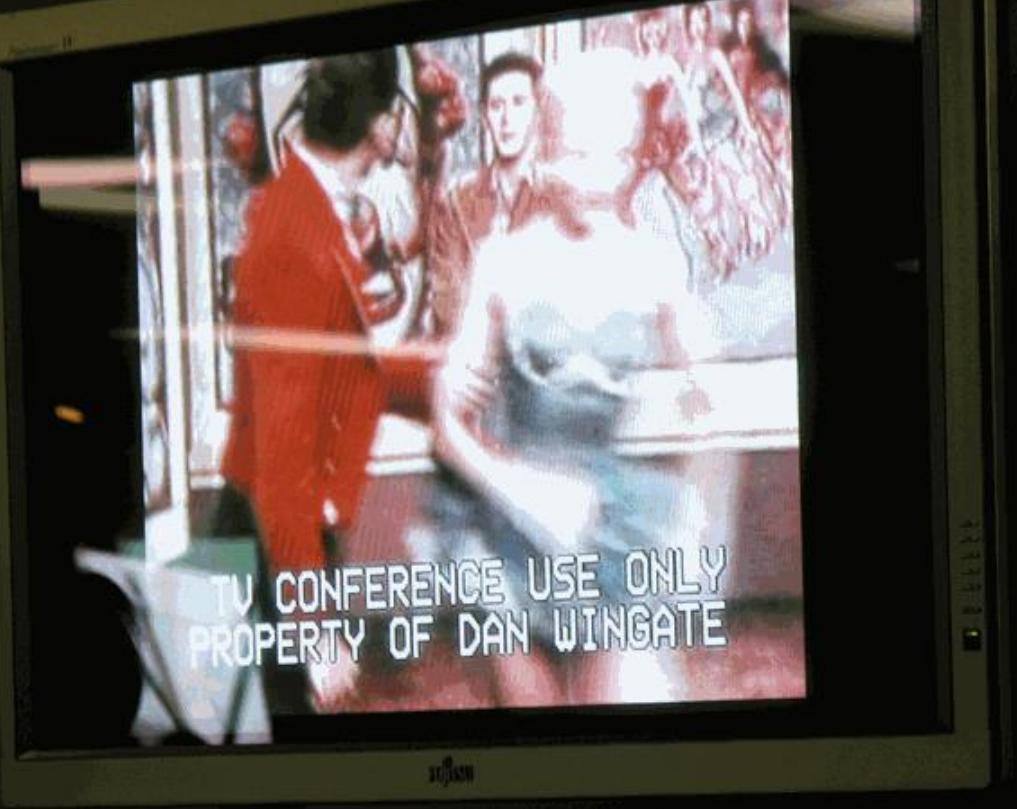


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on







ion



WORLD PREMIERE!

Walt Disney's
**WONDERFUL
WORLD of
COLOR**

Walt himself hosts the premiere of "The Wonderful World of Color"—animated cartoons, animal stories, fiction classics, adventure, variety shows—beginning with the zany adventures of Donald Duck's uncle, Professor Ludwig Von Drake, in "Mathmagic Land." Don't miss it!



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SUNDAY, SEPT. 24, IN COLOR, 6:30 PM, CH 2 - 7:30 PM, CH 4-5

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TV GUIDE

A-21

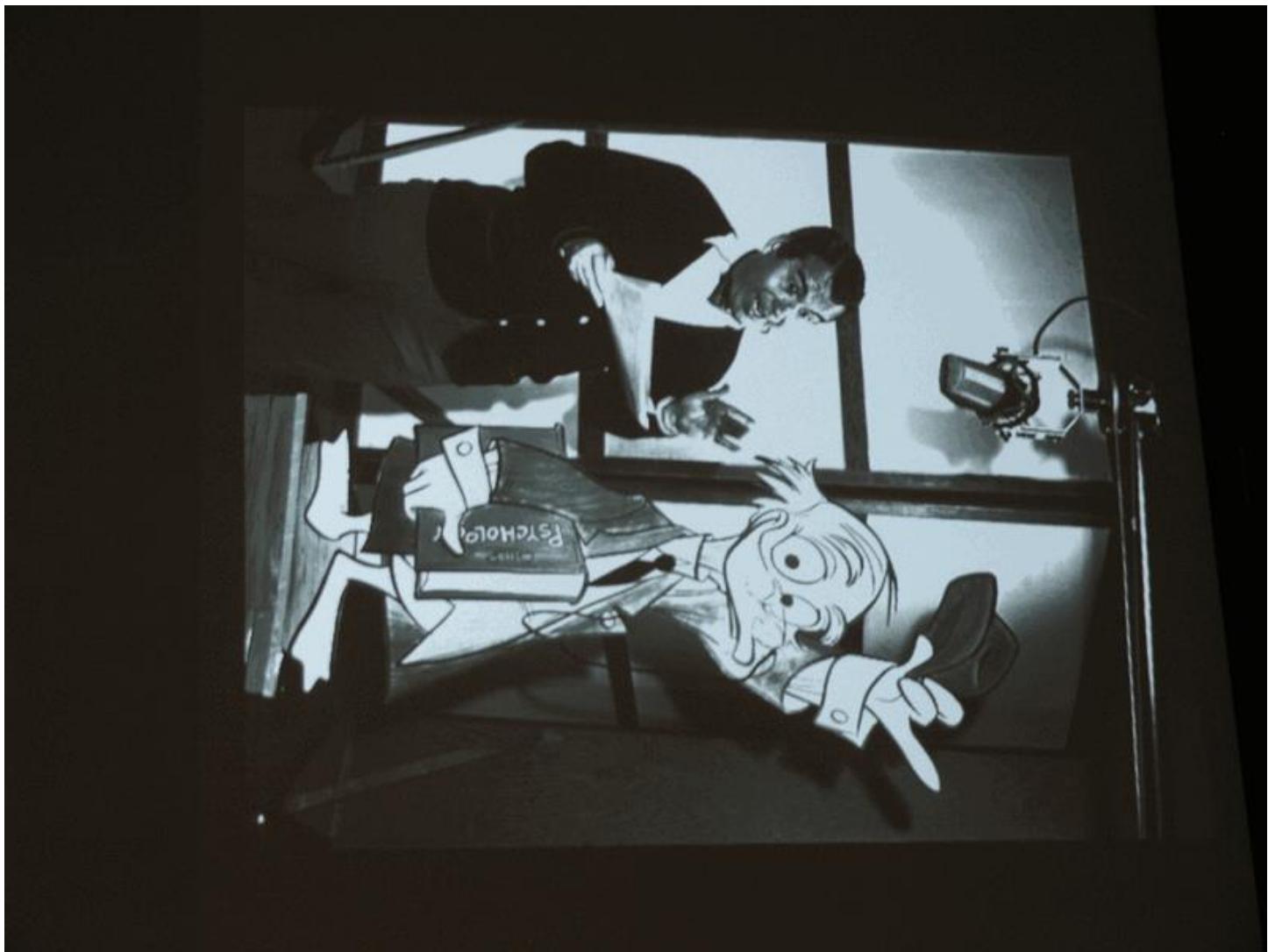


Disney has often spoken through the mouths of animals, and with the arrival of Ludwig von Drake the results may be startling.

WALT
DISNEY'S **WONDERFUL WORLD of COLOR**

All-Time Children's Favorite Stars and Songs









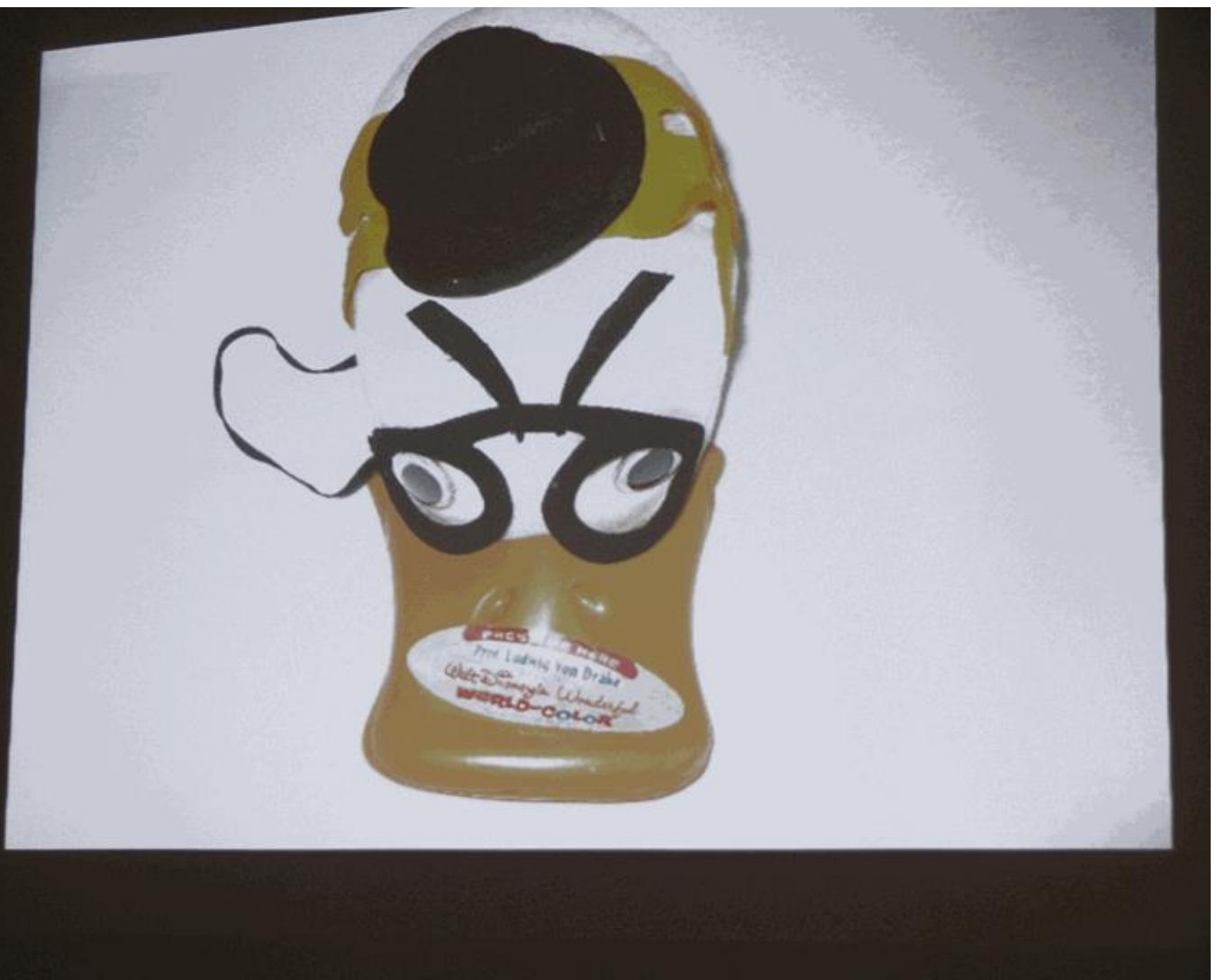
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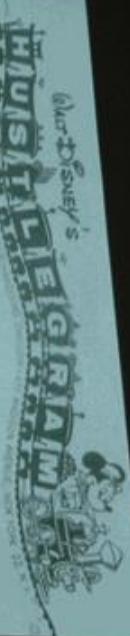
PEWTER LEADEN VON BABY



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- Disney products - Books - Business Card
- * Disney Store Merchandise
- * Disney Store Home Products 1982
- * \$1,000,000 advertising budget
- * Sponsored by RCA Victor A-Electronics Division
- * \$1,000,000 advertising
- * WONDERFUL WORLD OF COLOR™ will be represented in catalogues - catalog reprinted every month
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(DL 2000) Fairy-tale new toy -
comes with Toy Machine, a
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3 packages of colorful modeling
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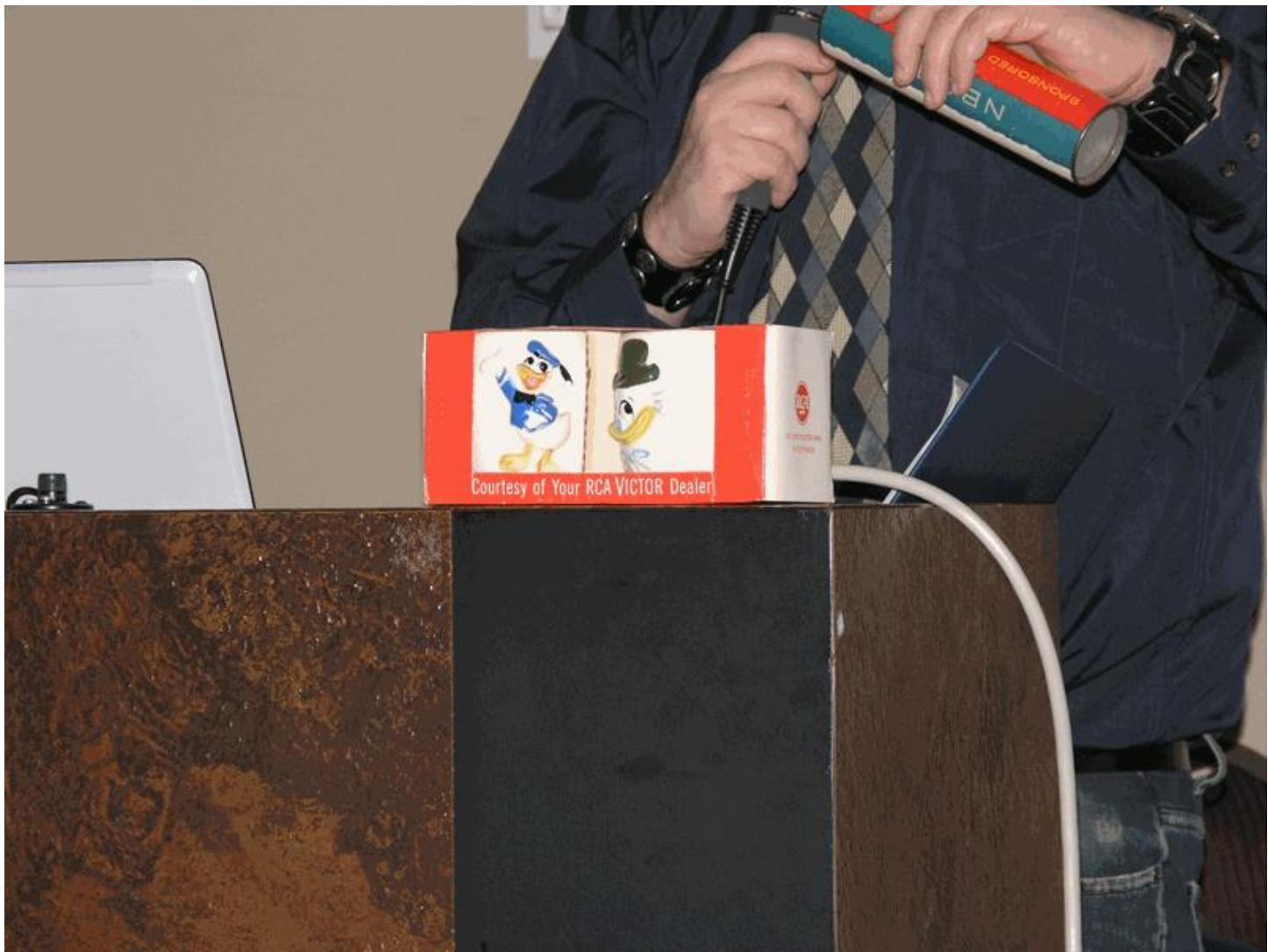


COLOR DOUGH
(DC 6073) pack
bag of colorful
modelling Dough
in poly bags - may
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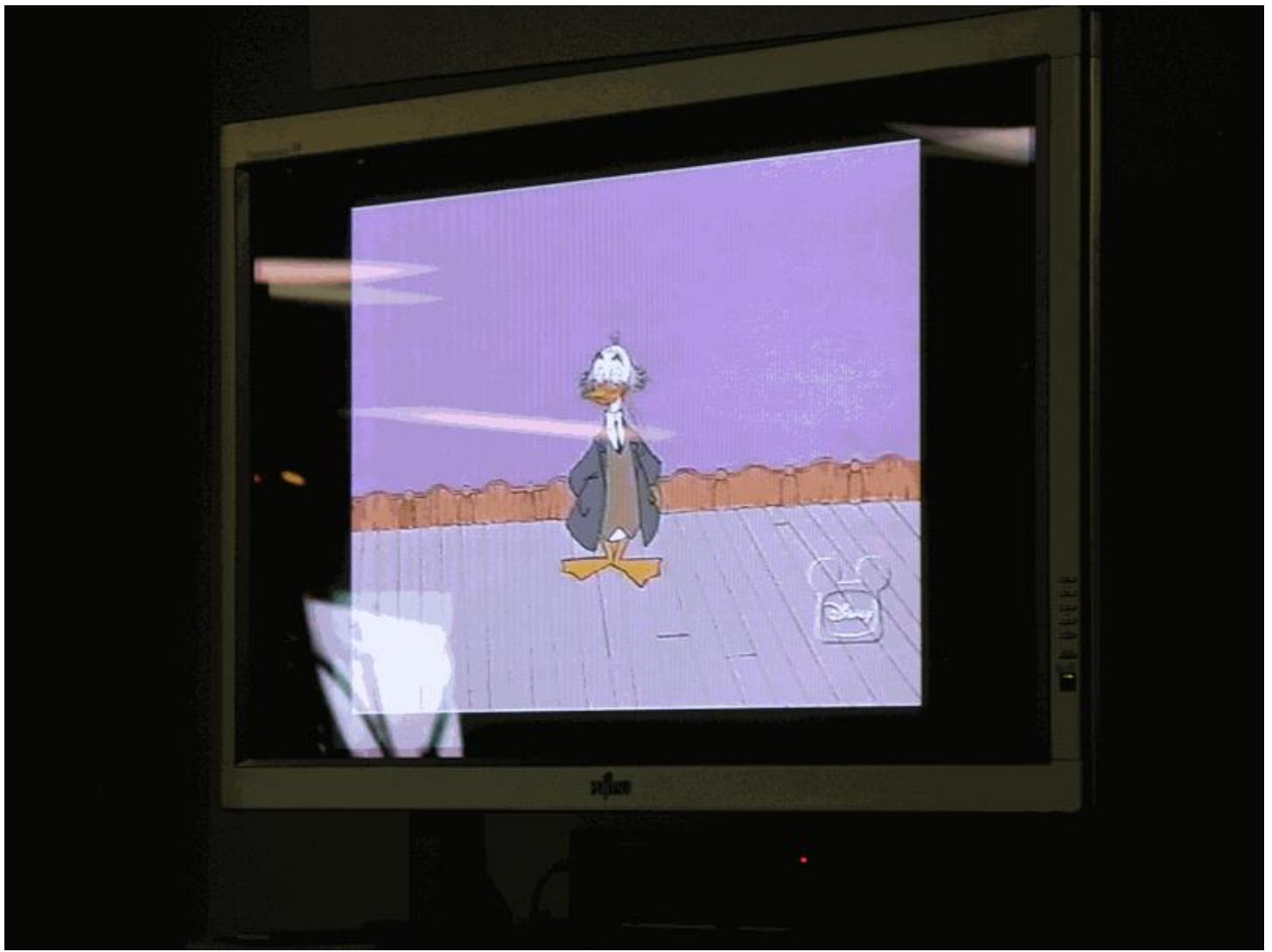






nvention





Walt Disney's

WONDERFUL WORLD OF COLOR







Ludwig Von Drake Meets the NBC Peacock: Walt Disney and the COLOR Television Revolution



Presented by
Jim Fanning





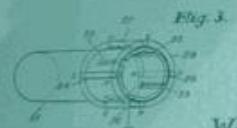
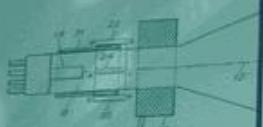
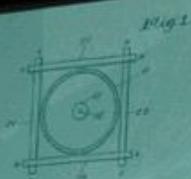


Convention





RCA
REVIEW



INVENTOR:
Waldemar J. Poch
ATTORNEY:
H. Grover

Waldemar J. Poch: *Beyond the Soviet Television Project*



James O'Neal

TV TECHNOLOGY



Early Television Convention



Invention













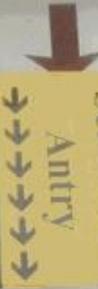


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MEZZANIN

Offices

↑ Early TV
↑↑↑↑↑↑↑↑

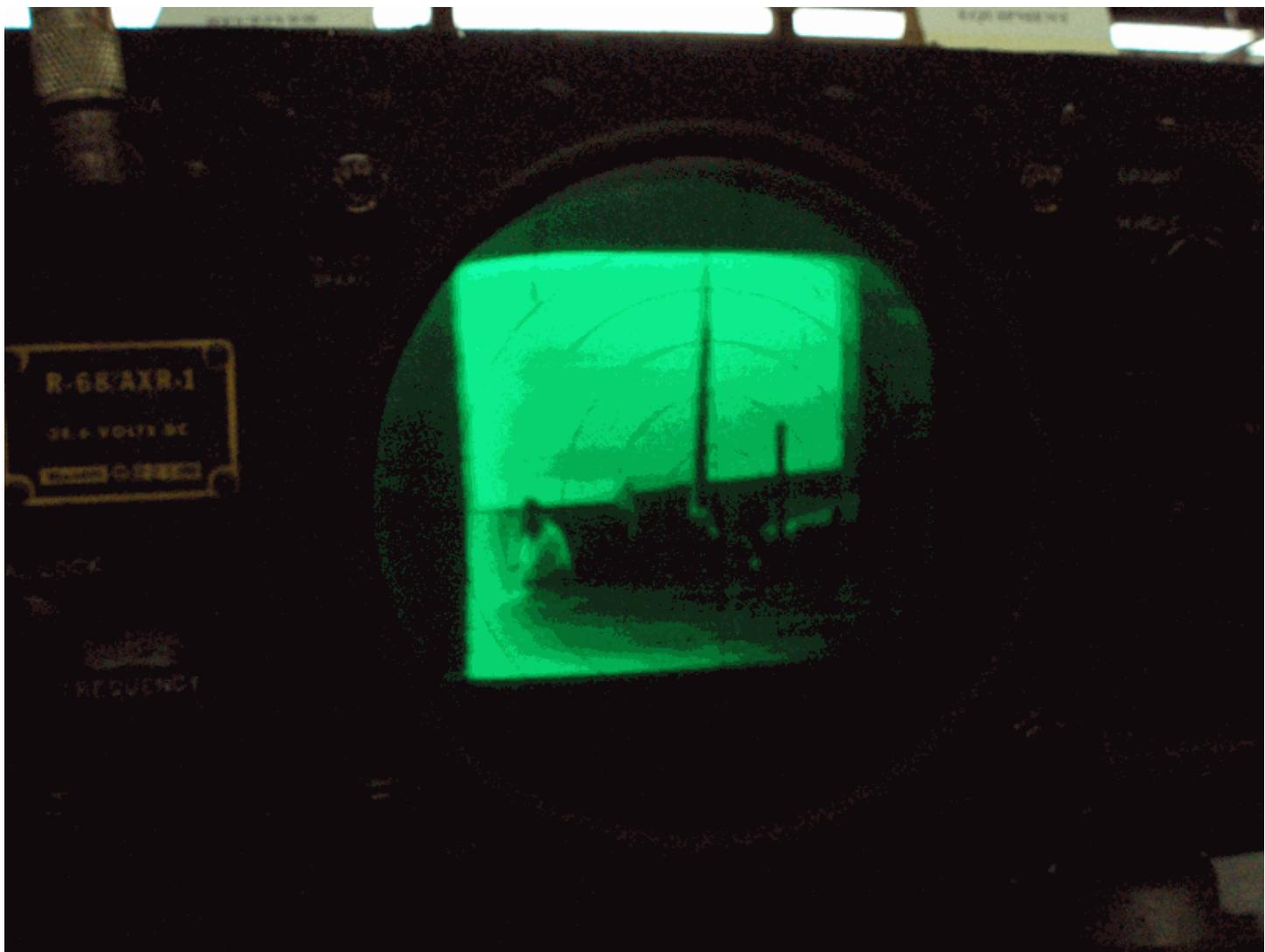


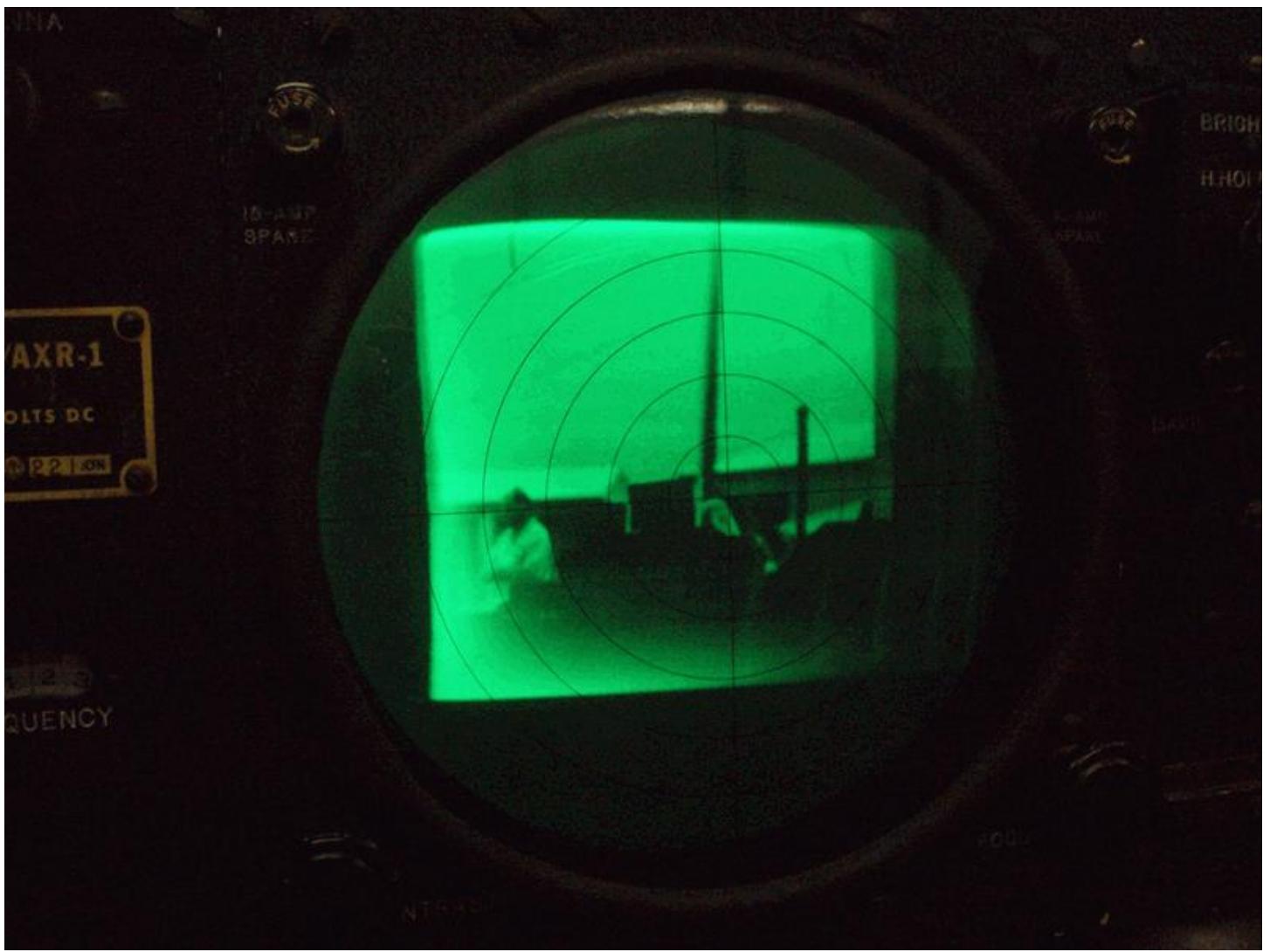


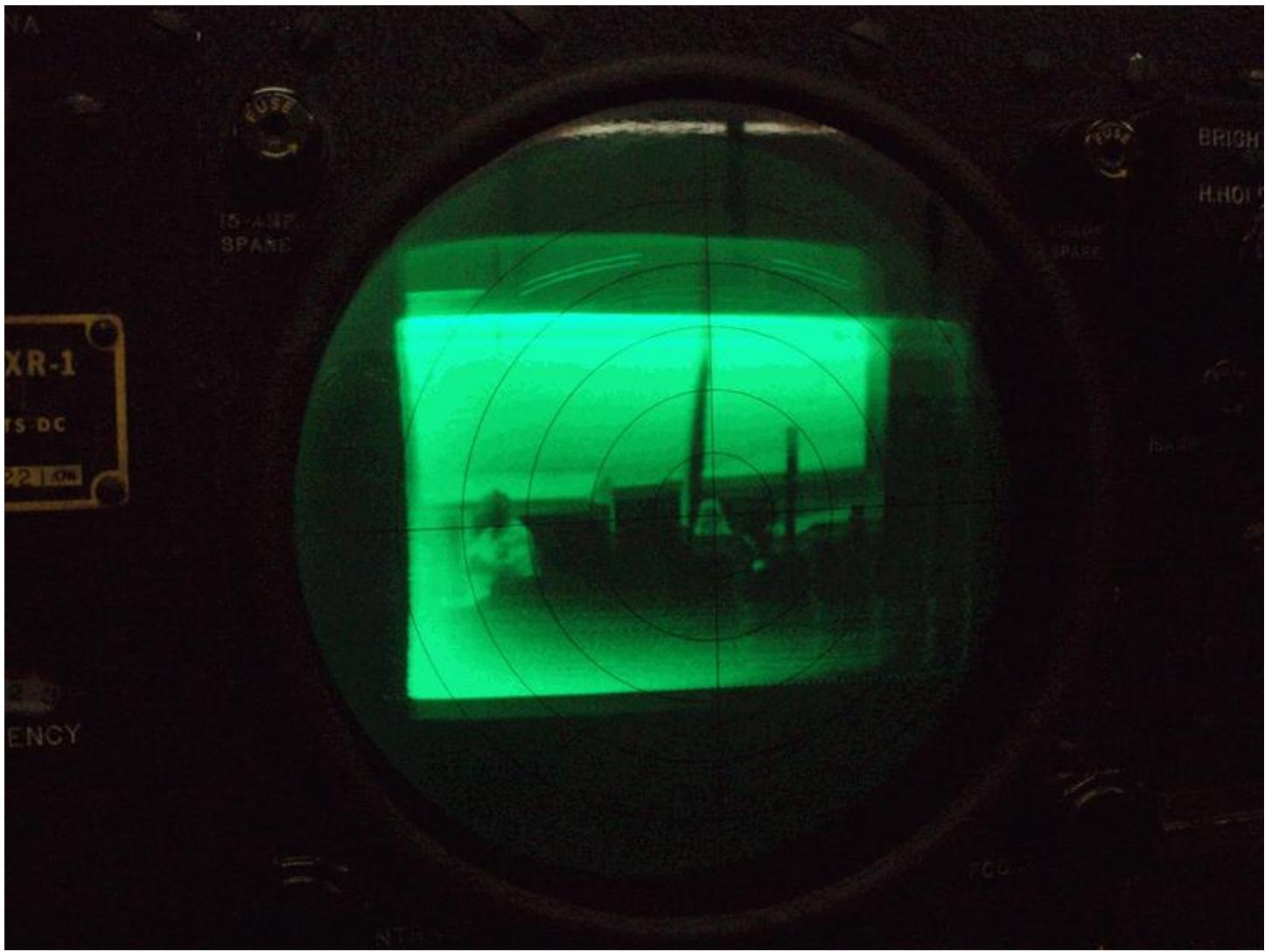
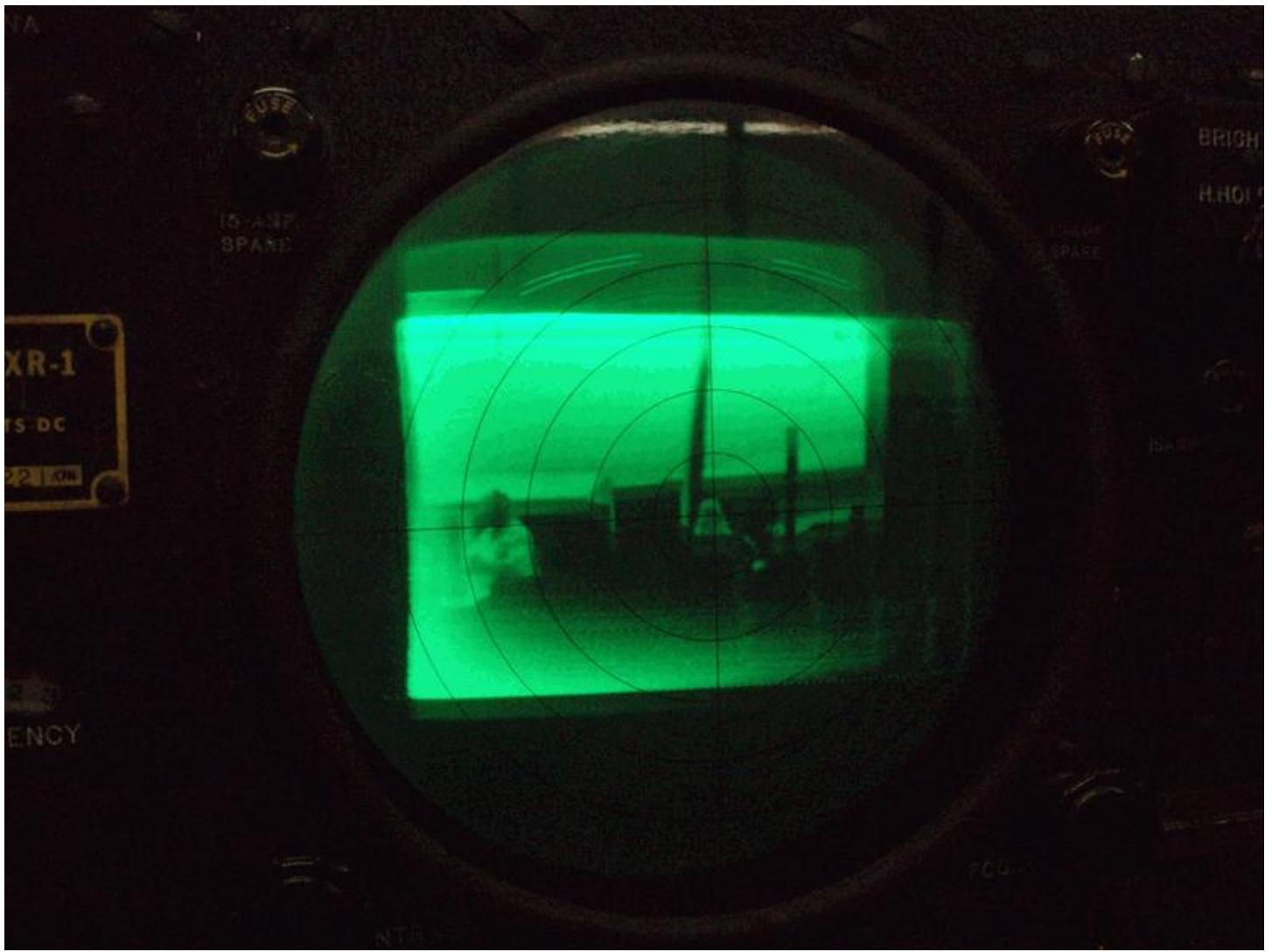


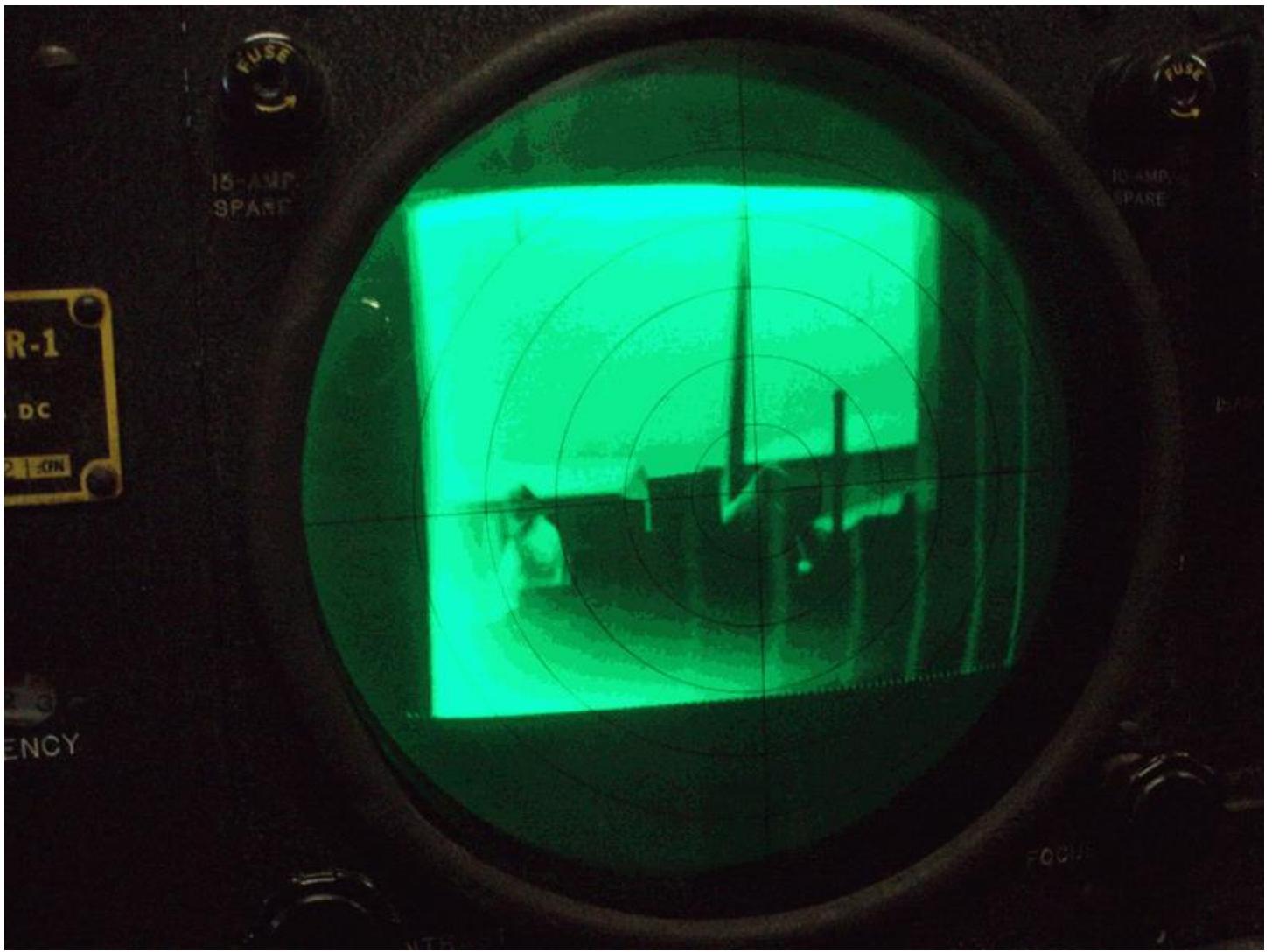


















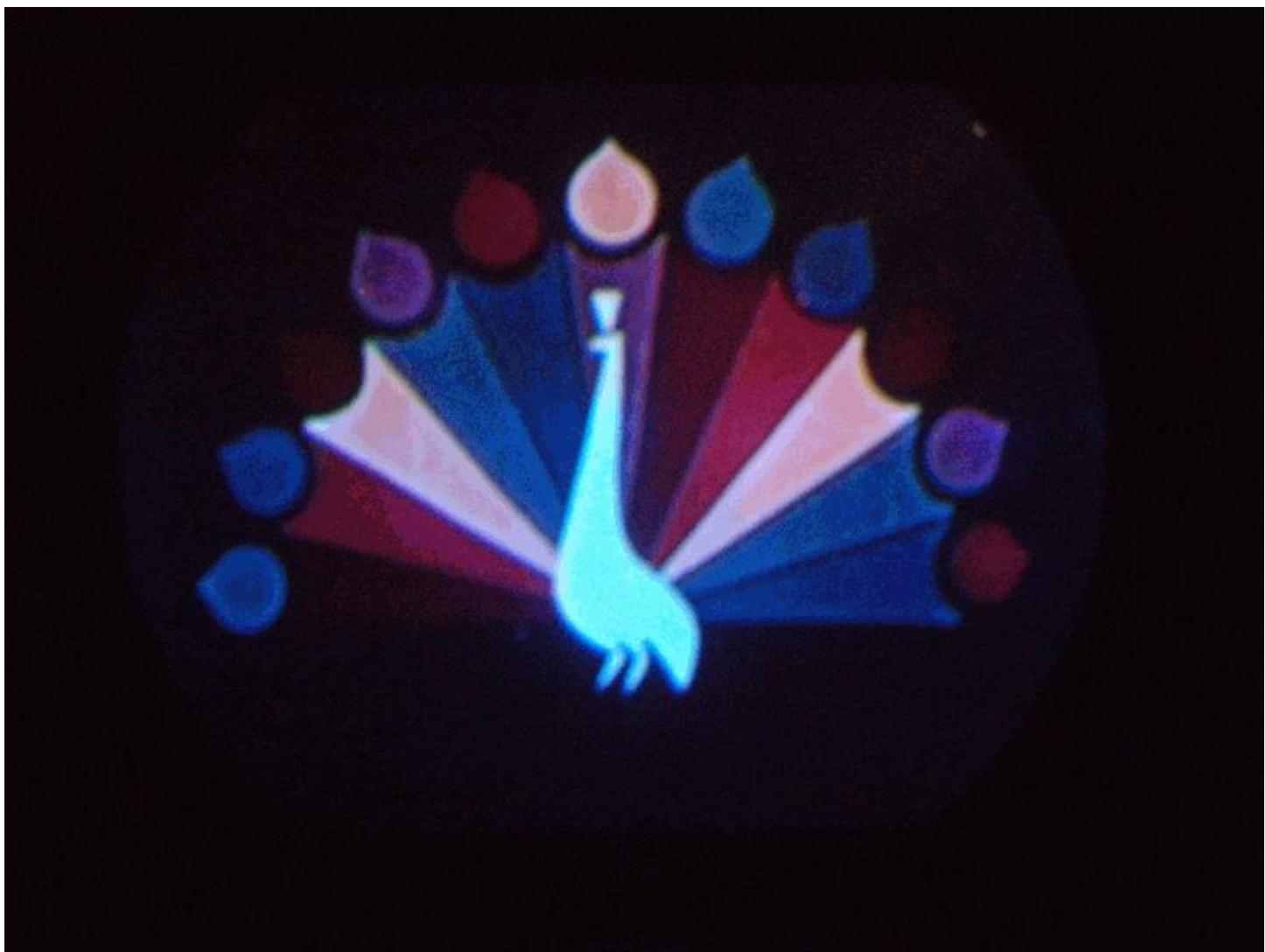






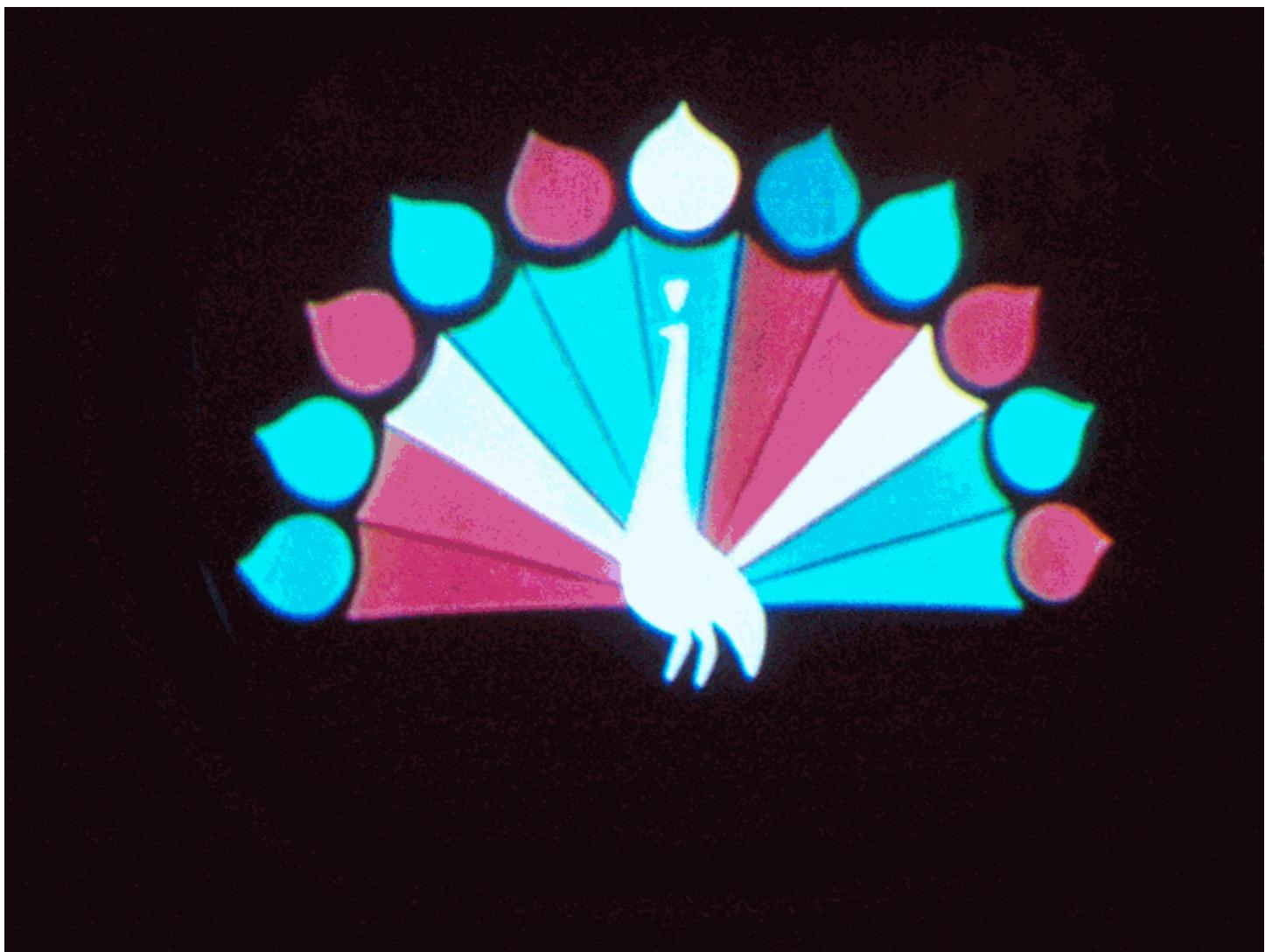


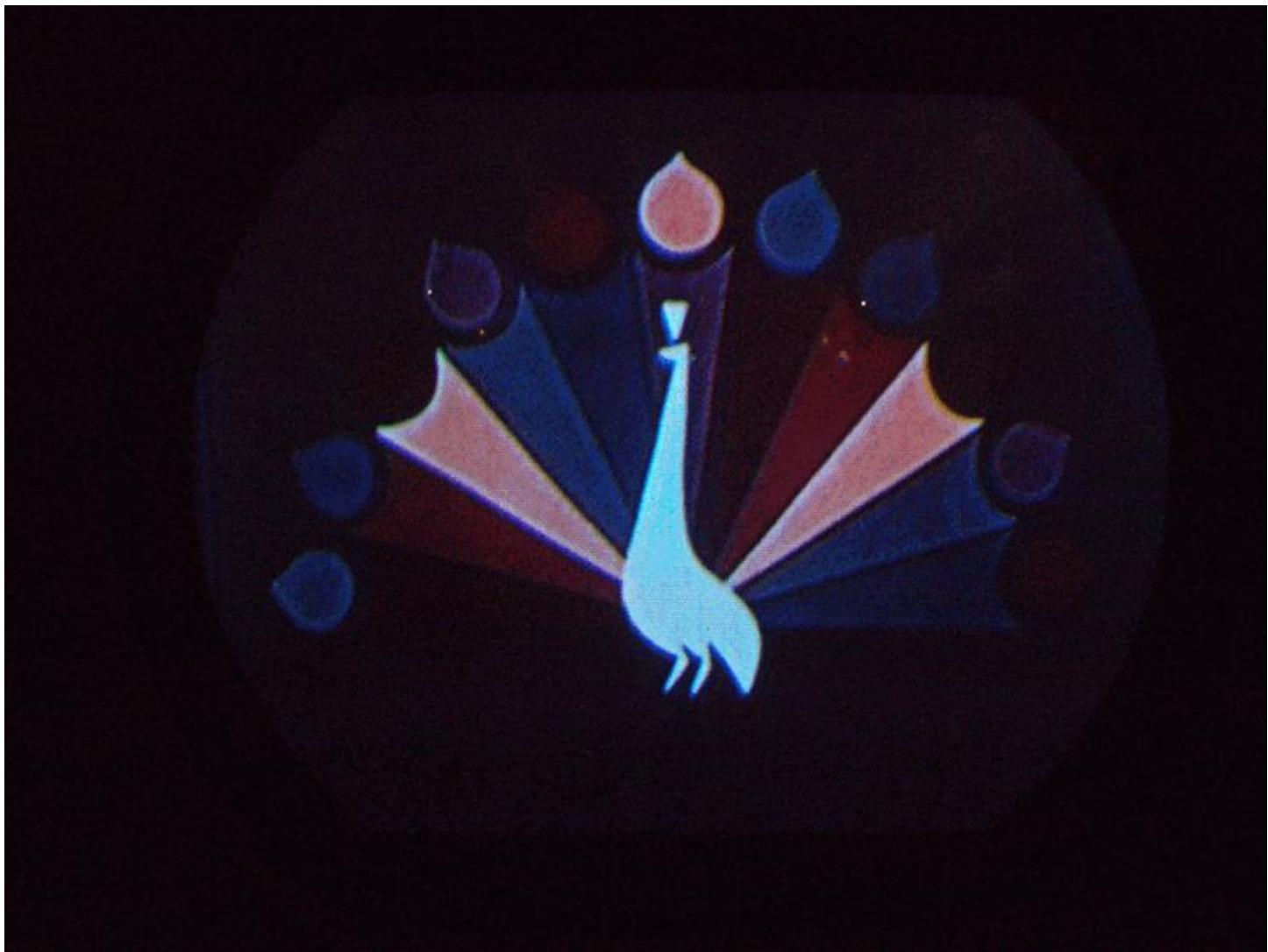






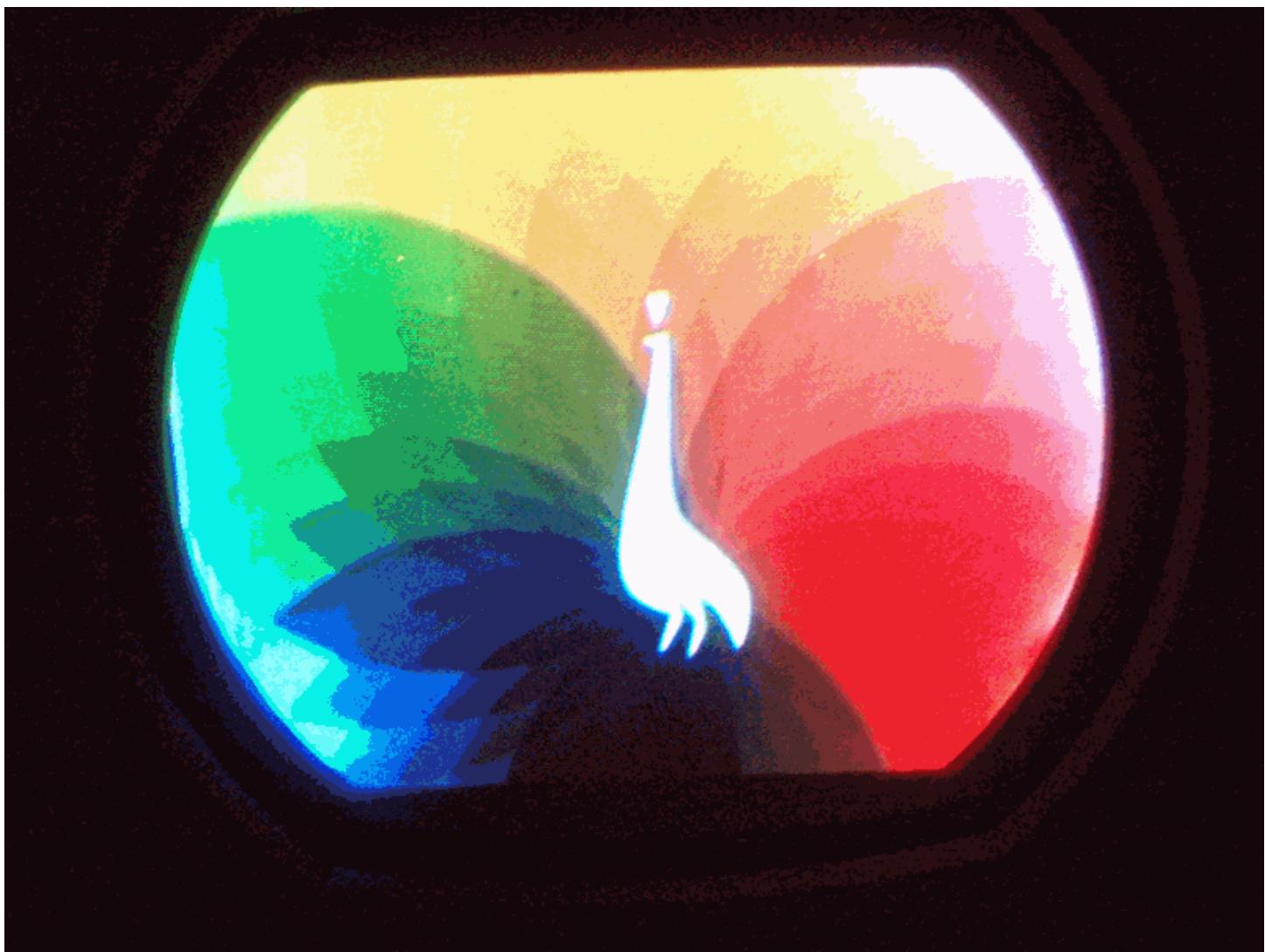


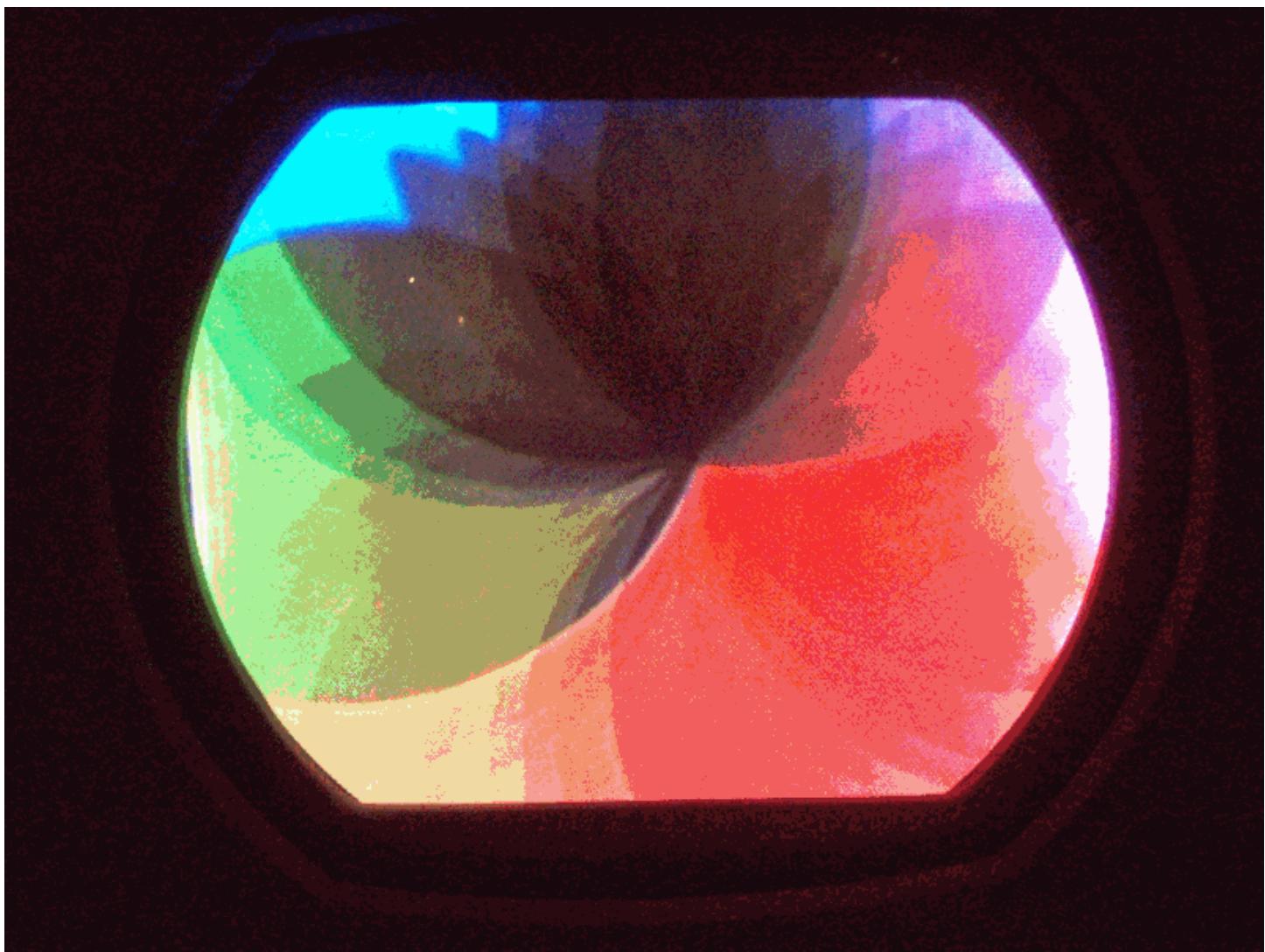


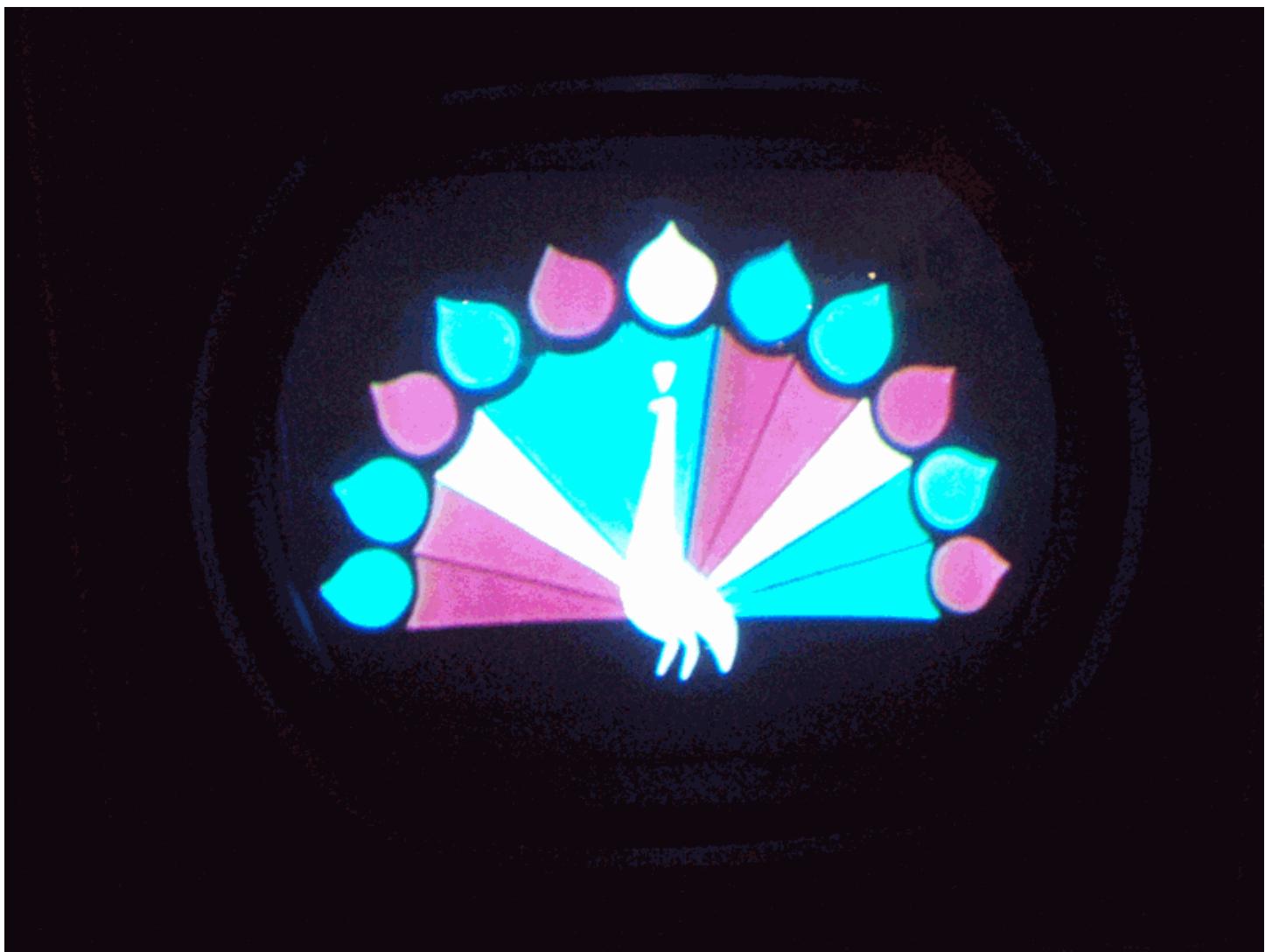














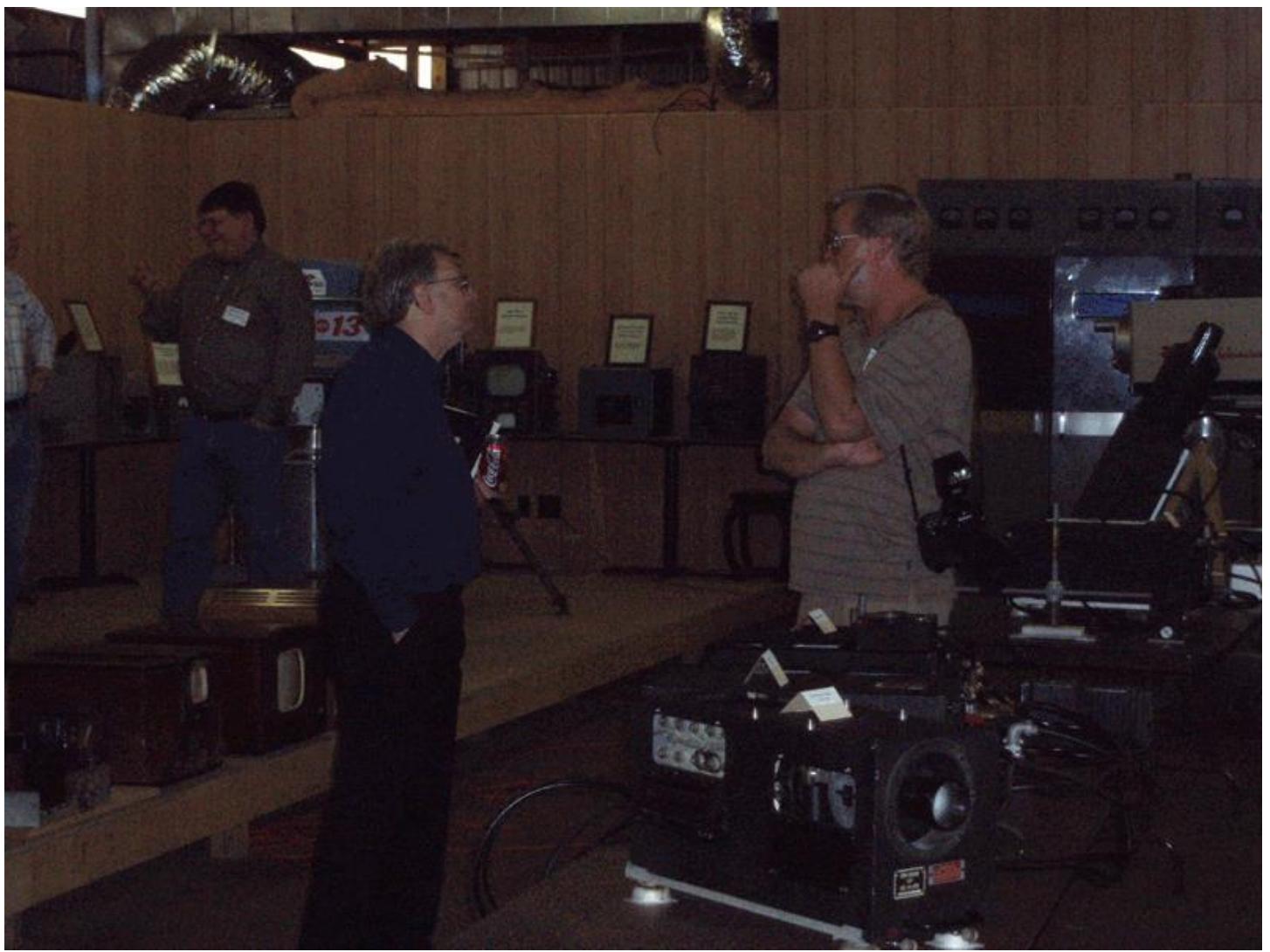










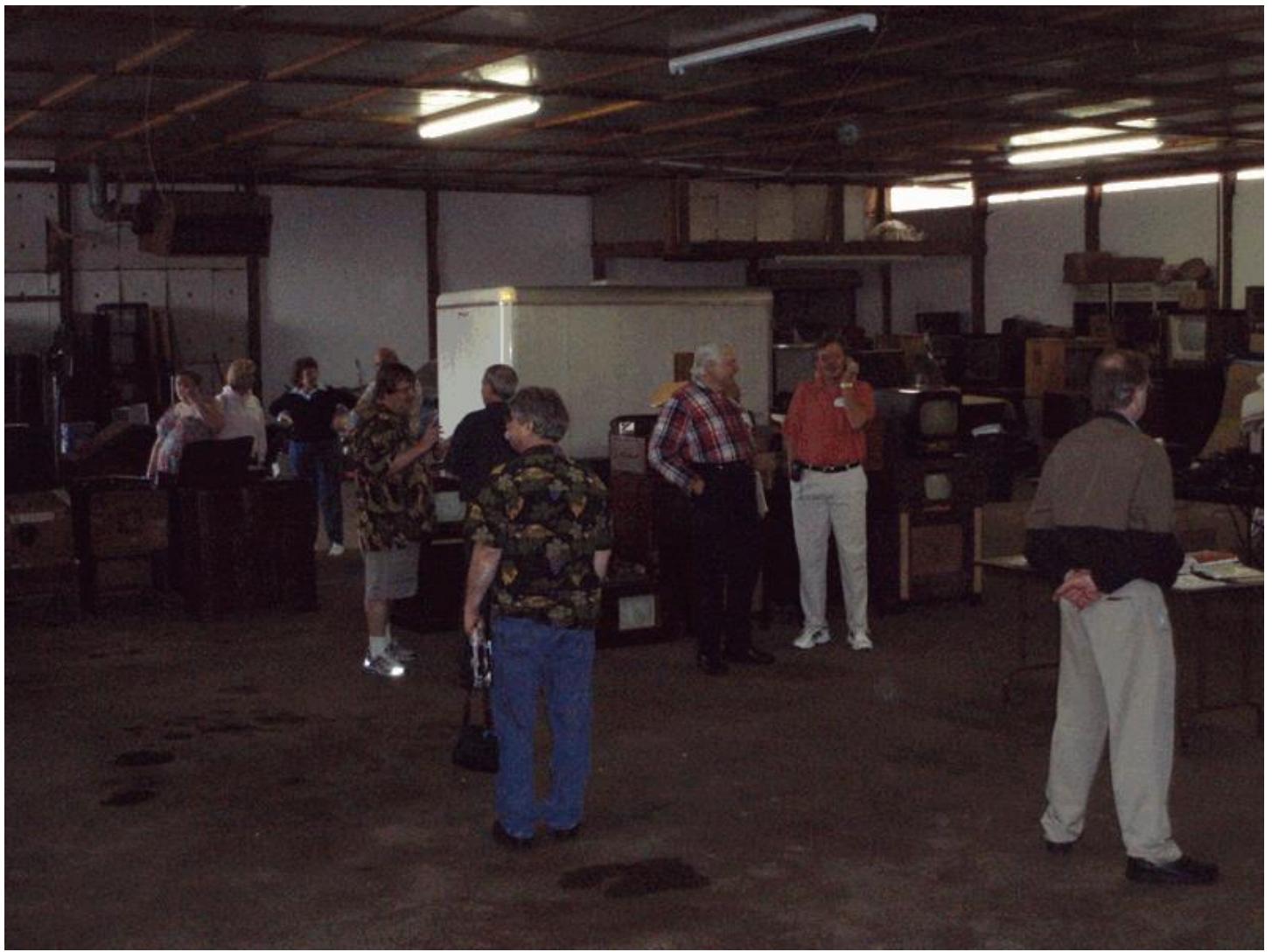




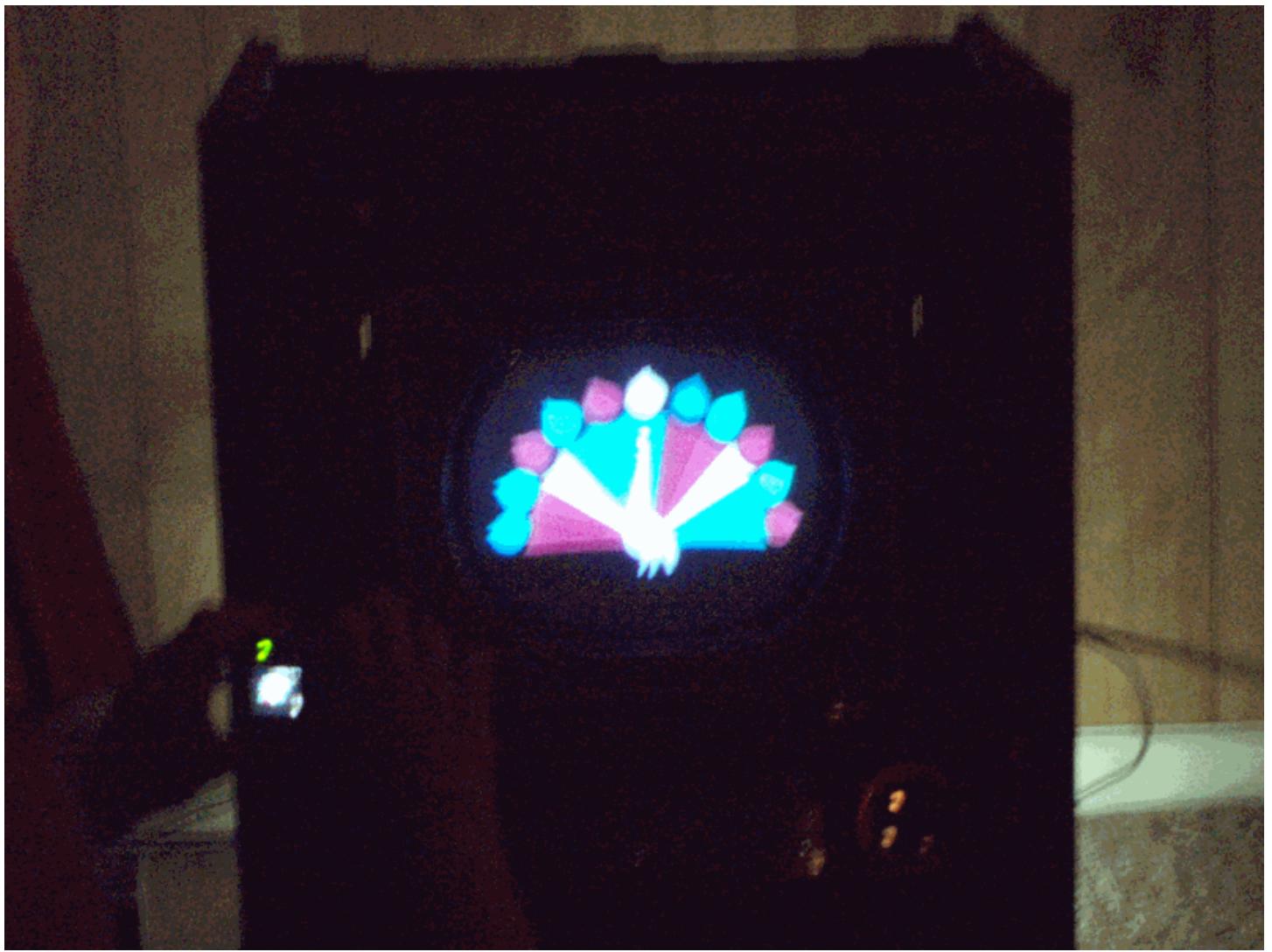
















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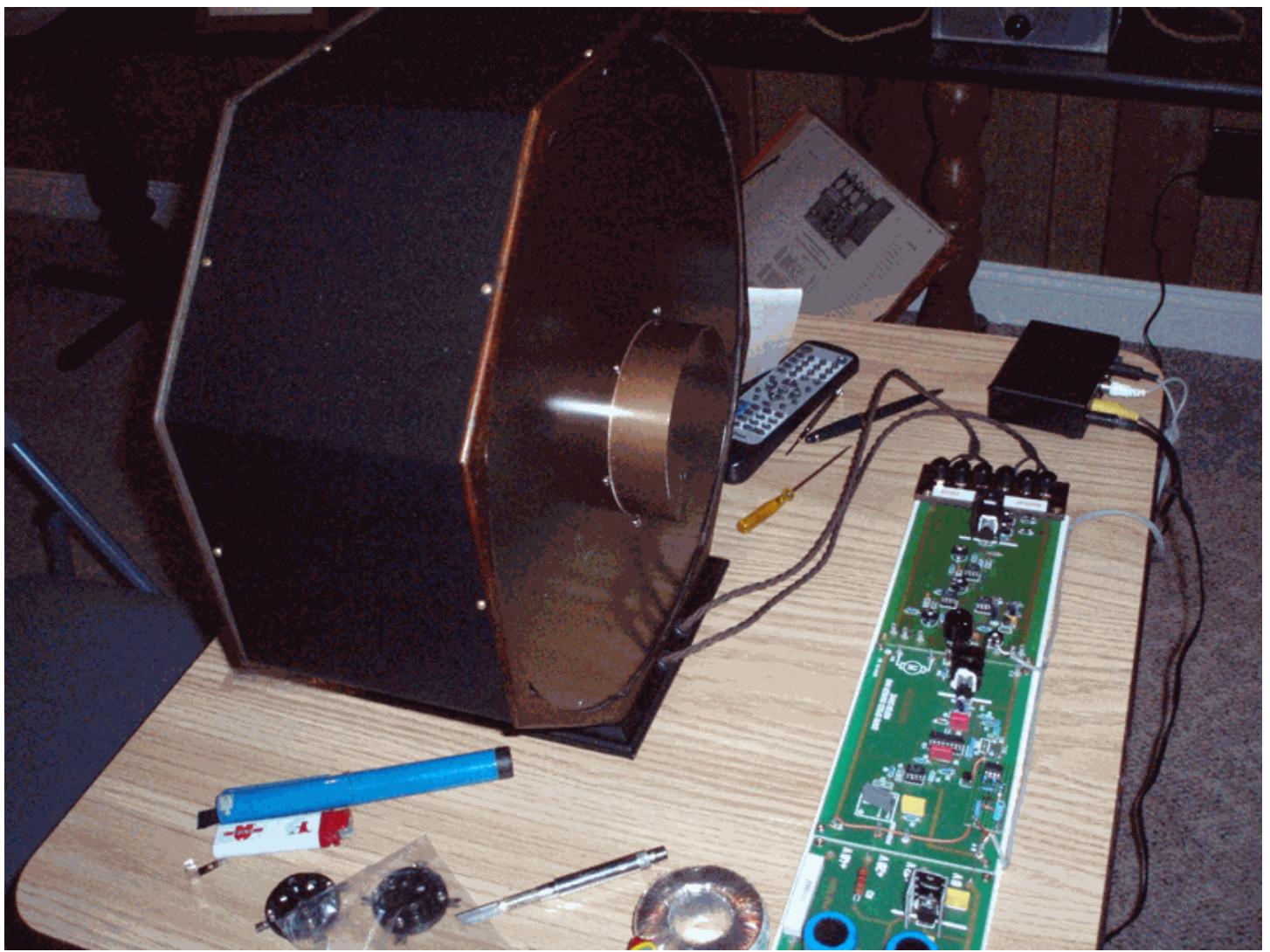
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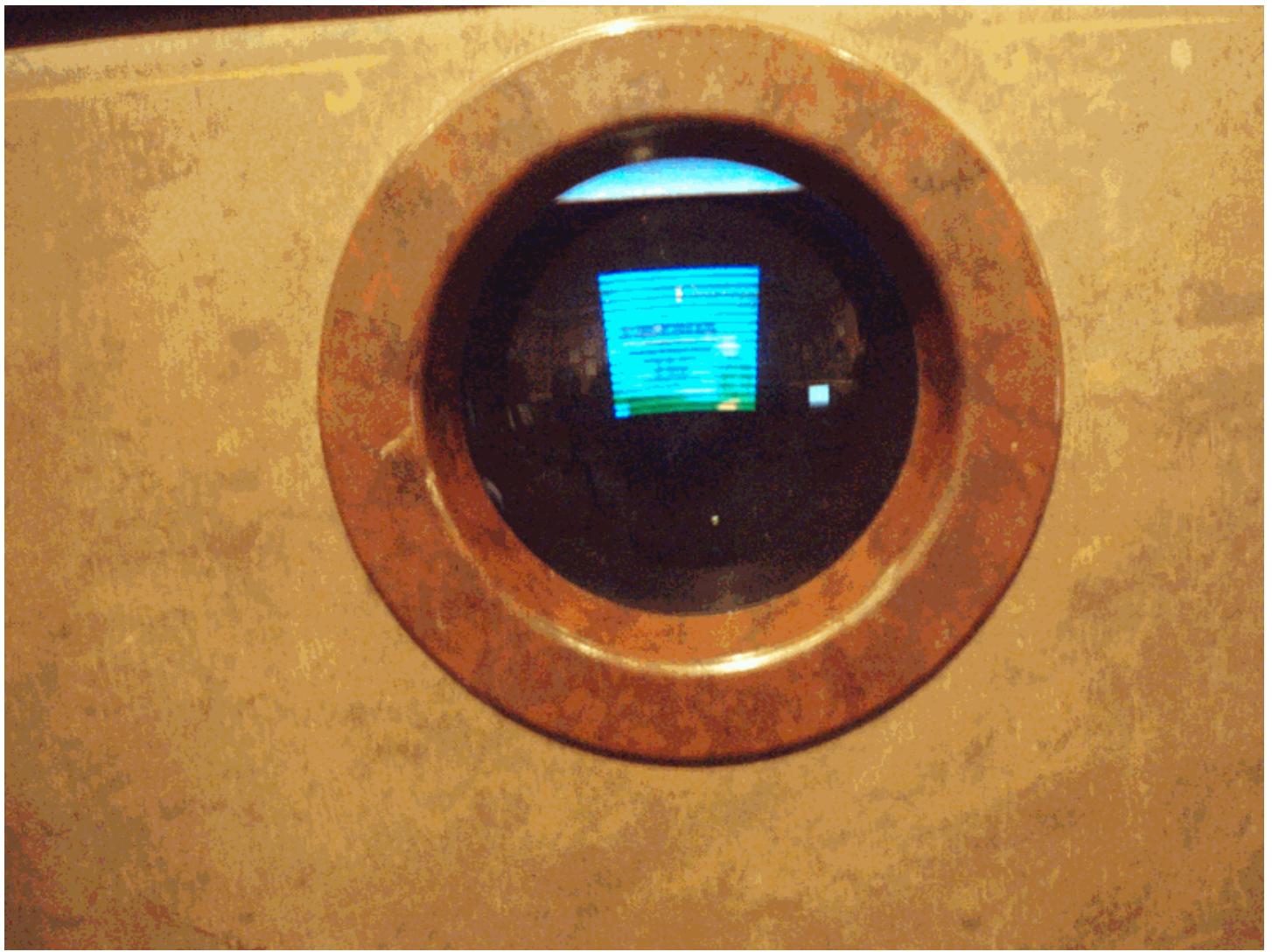


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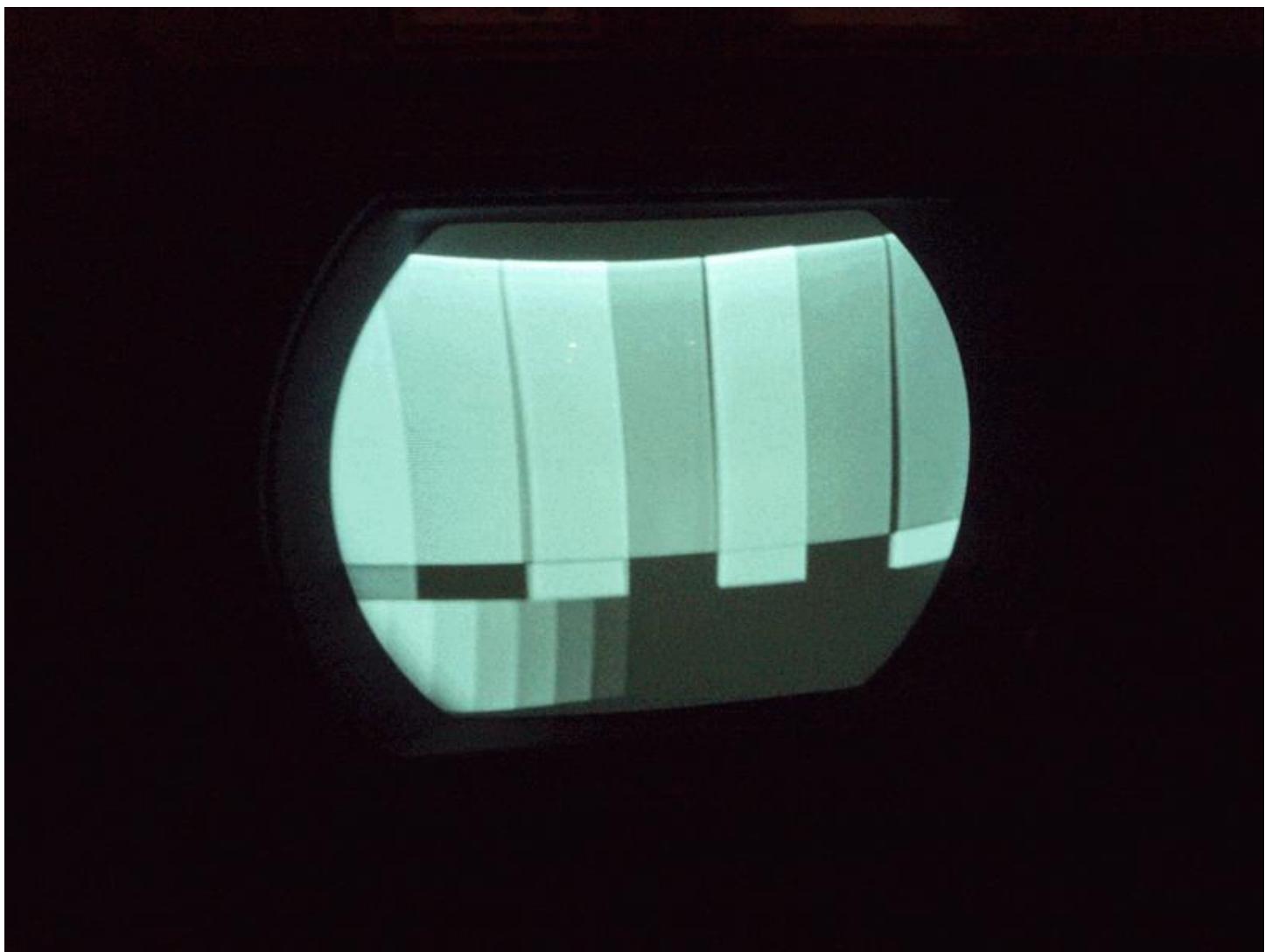


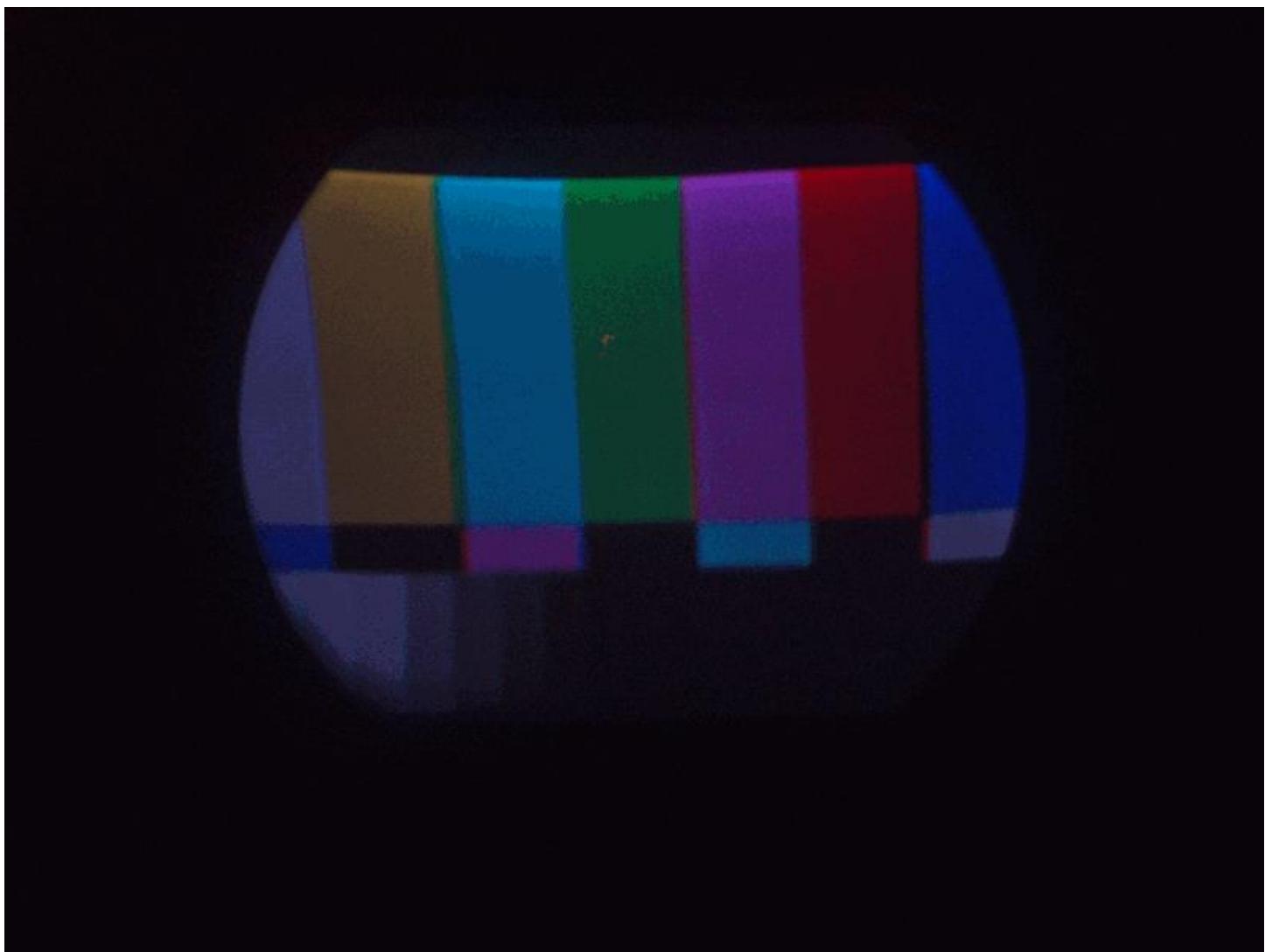


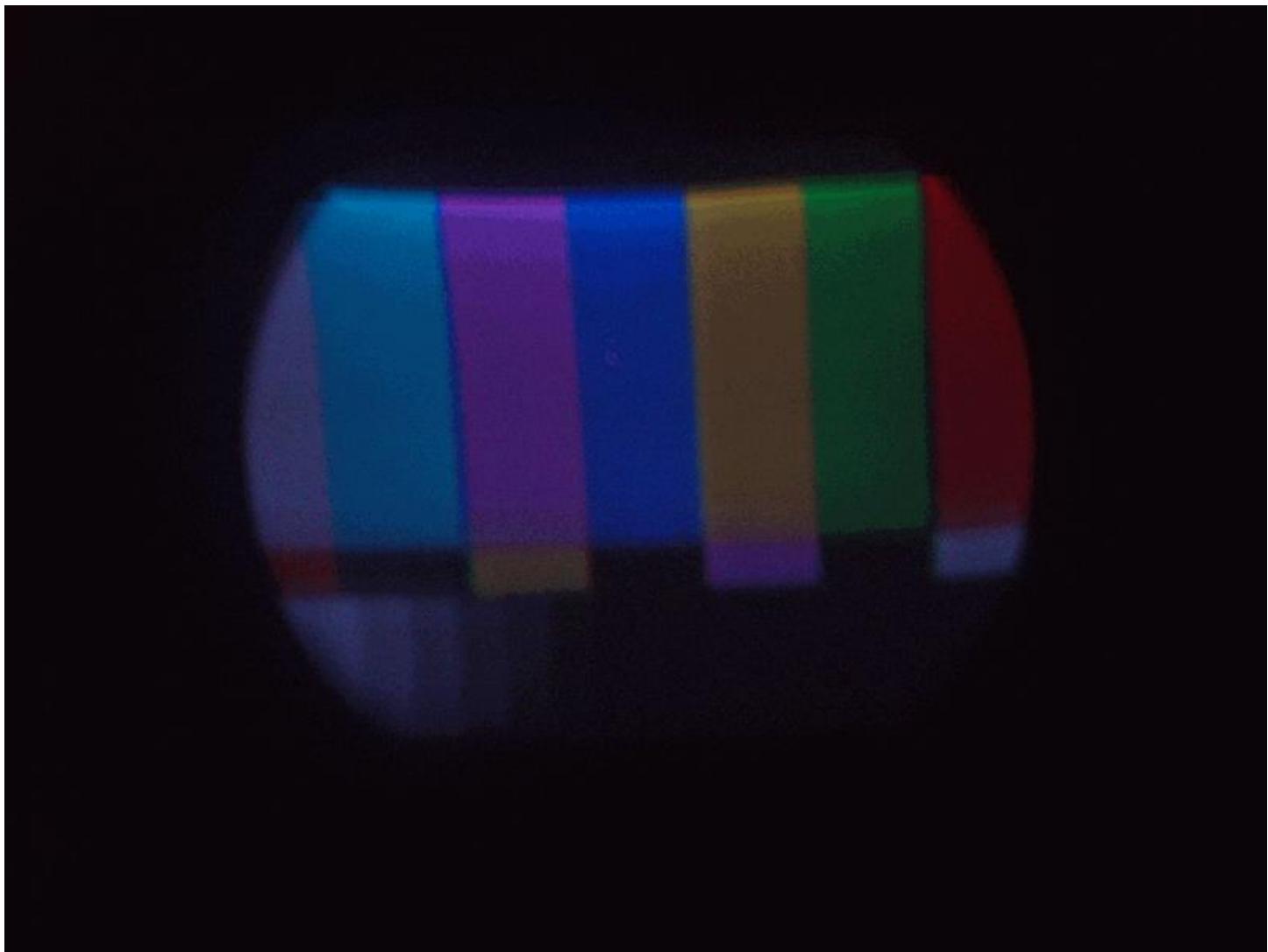


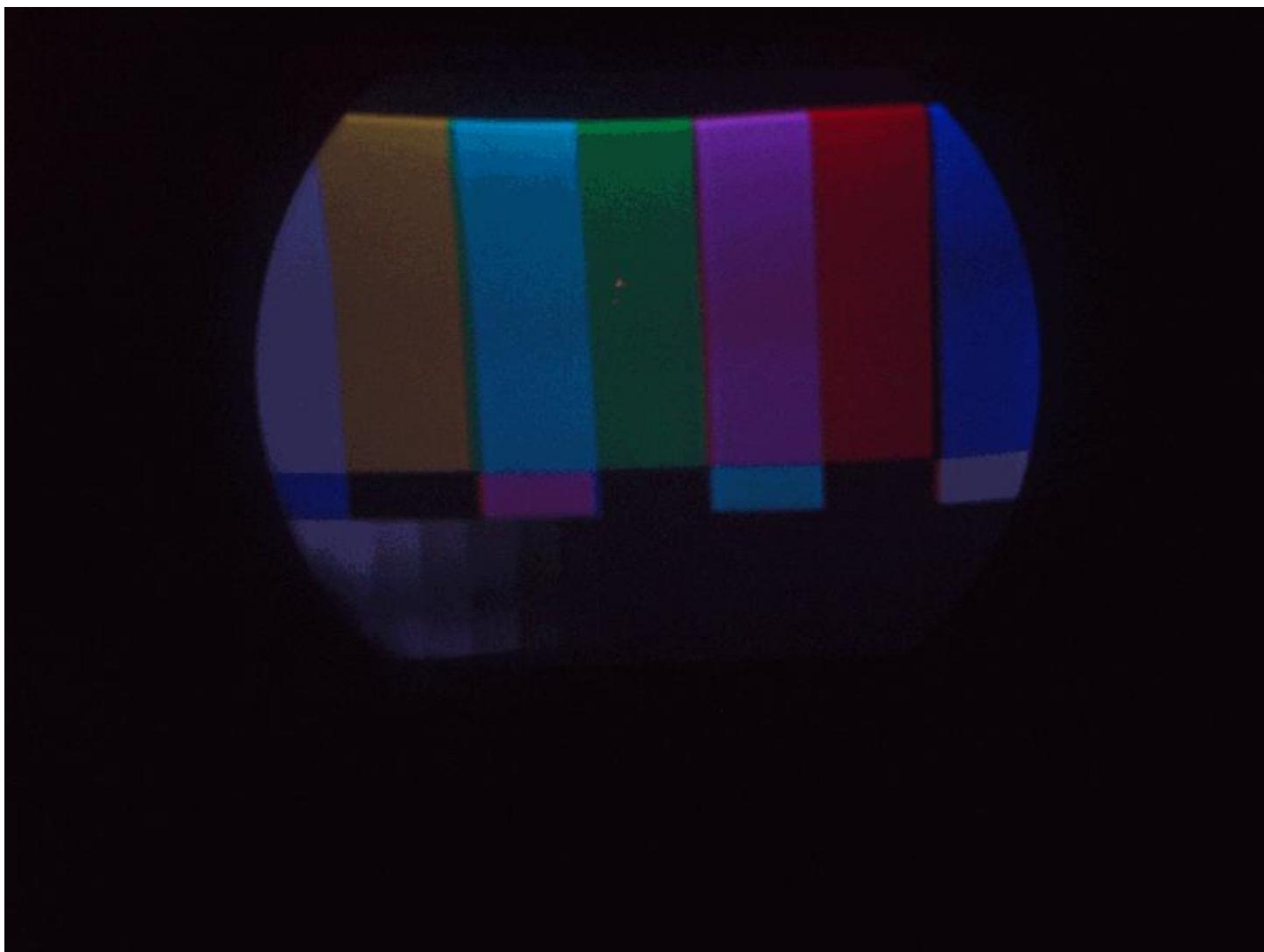


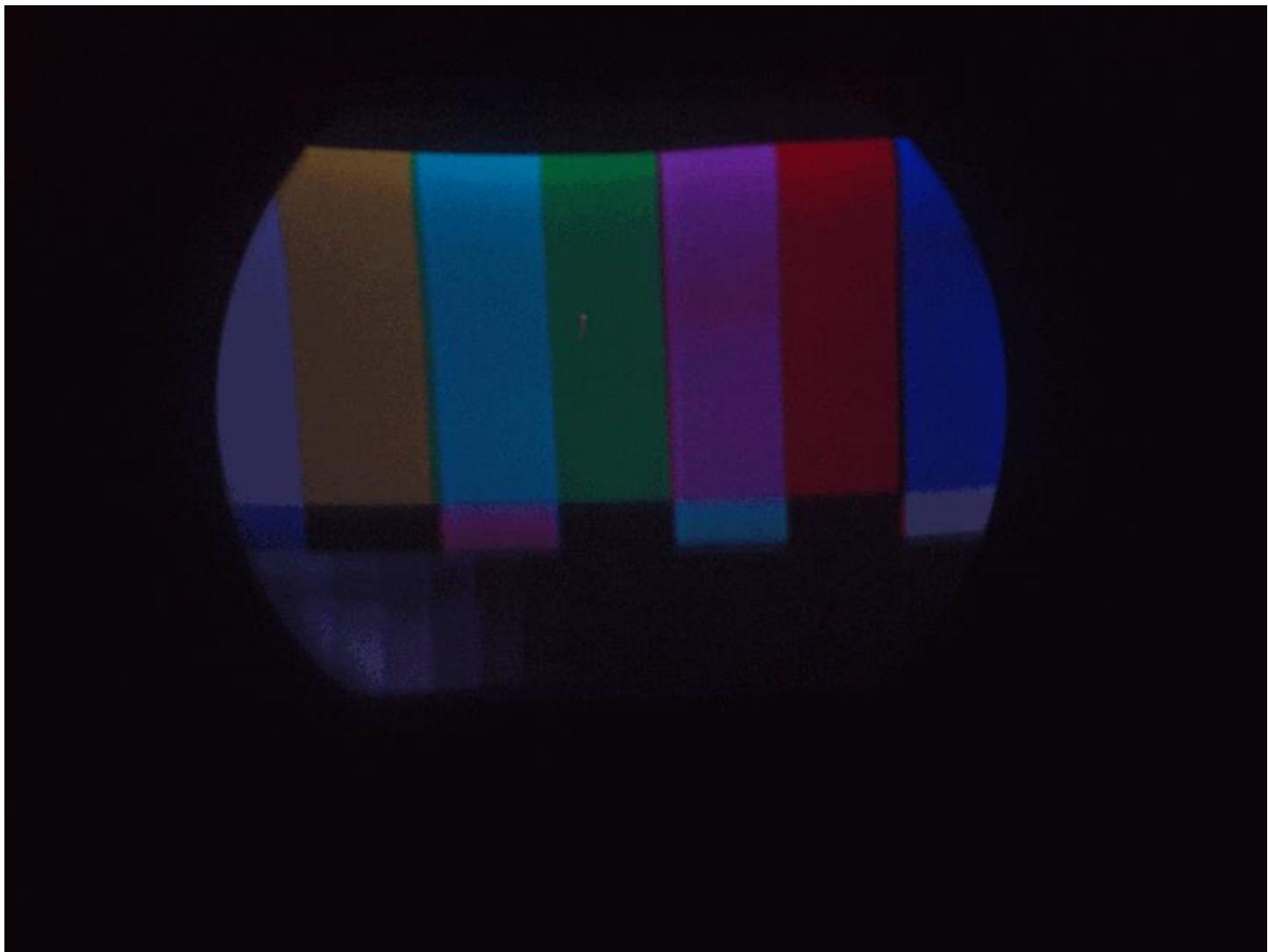


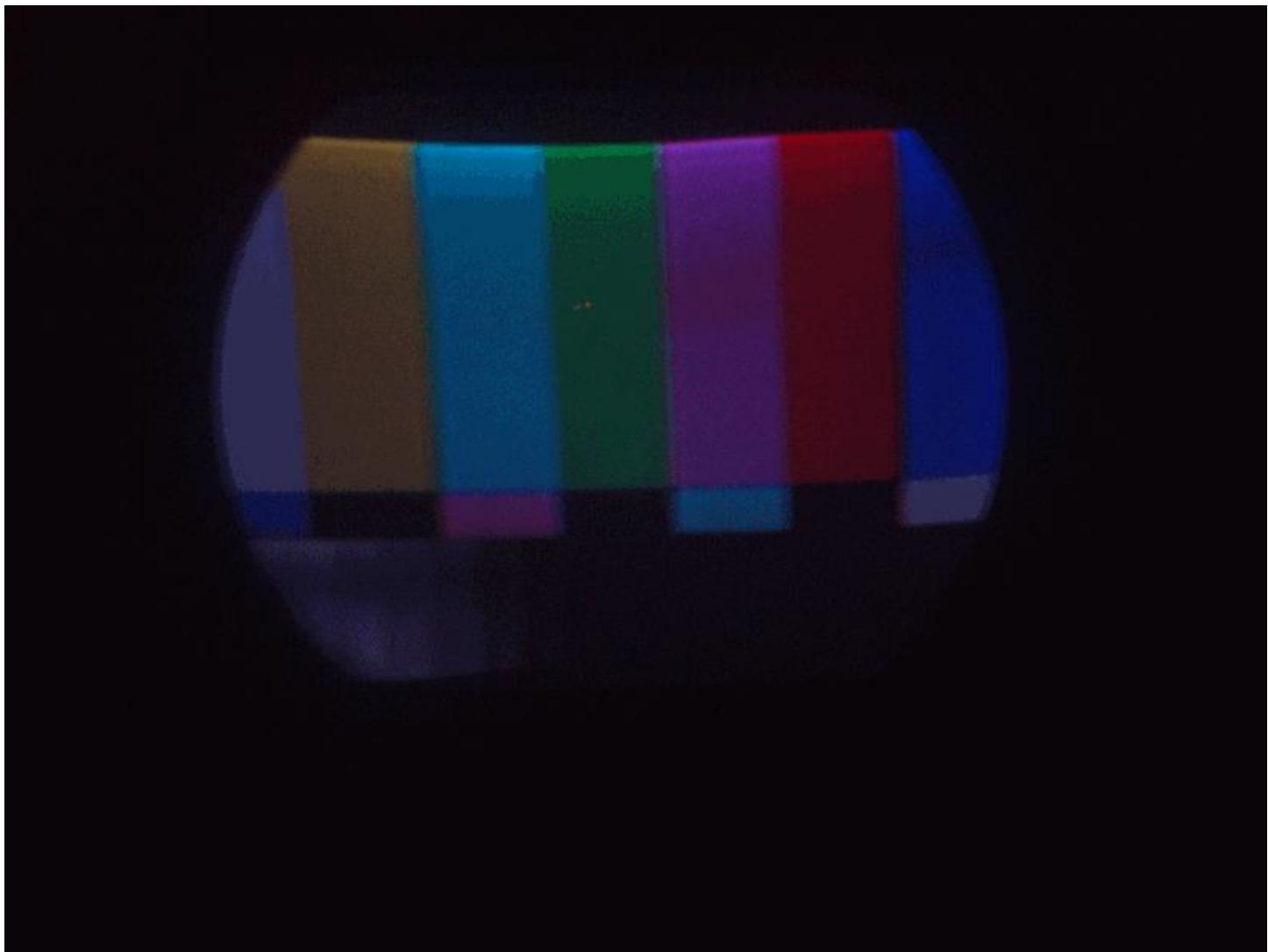


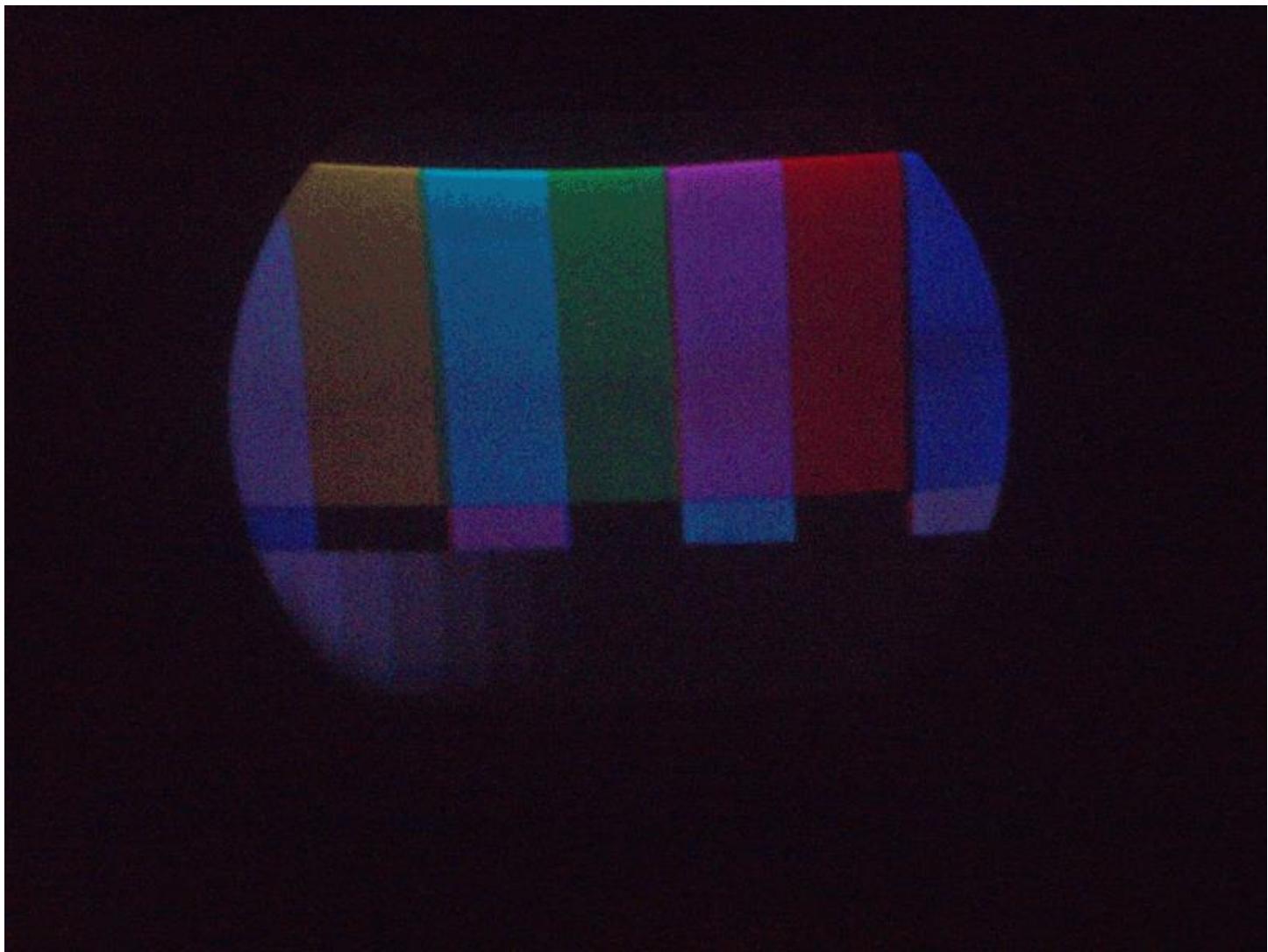


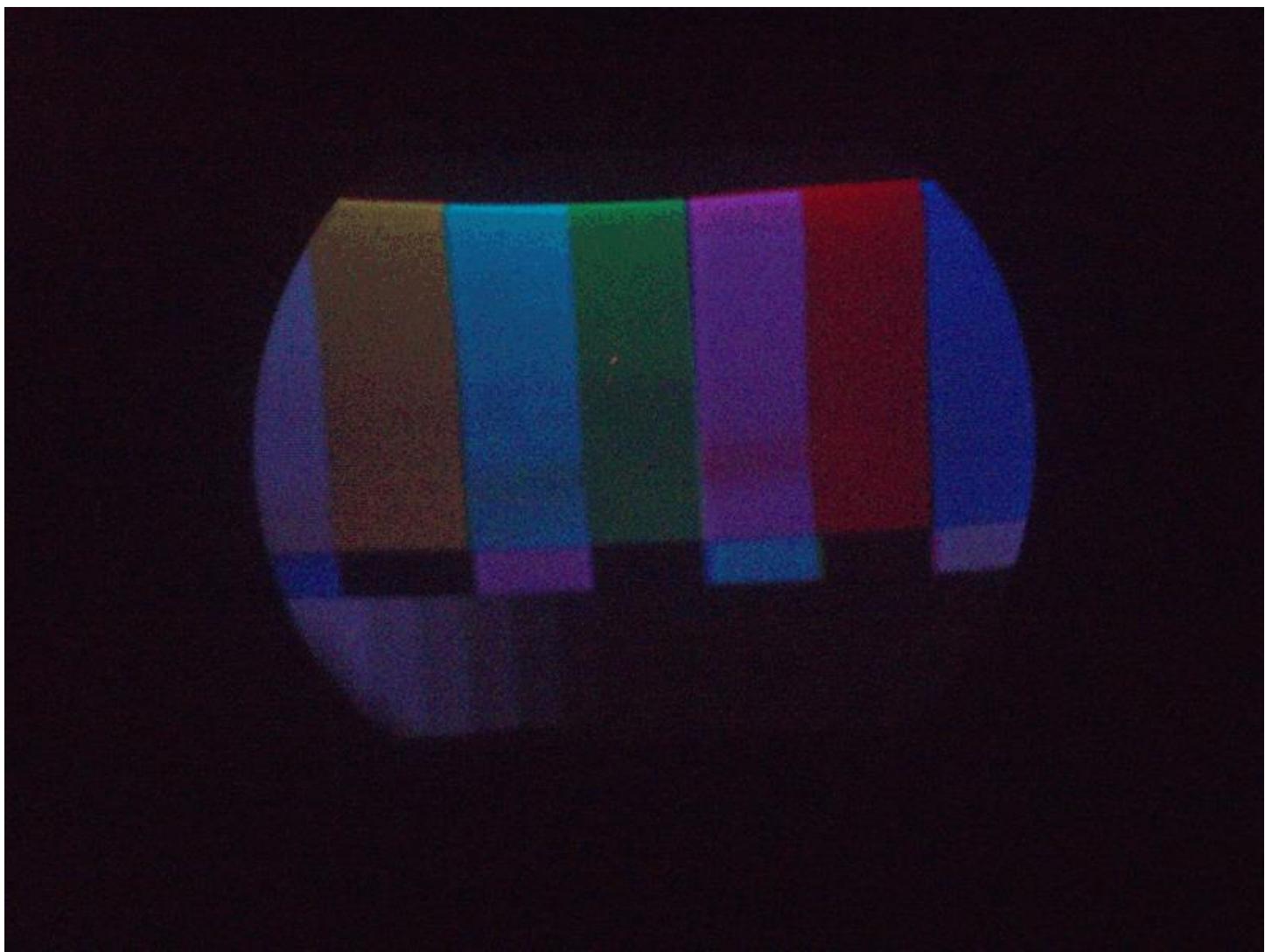


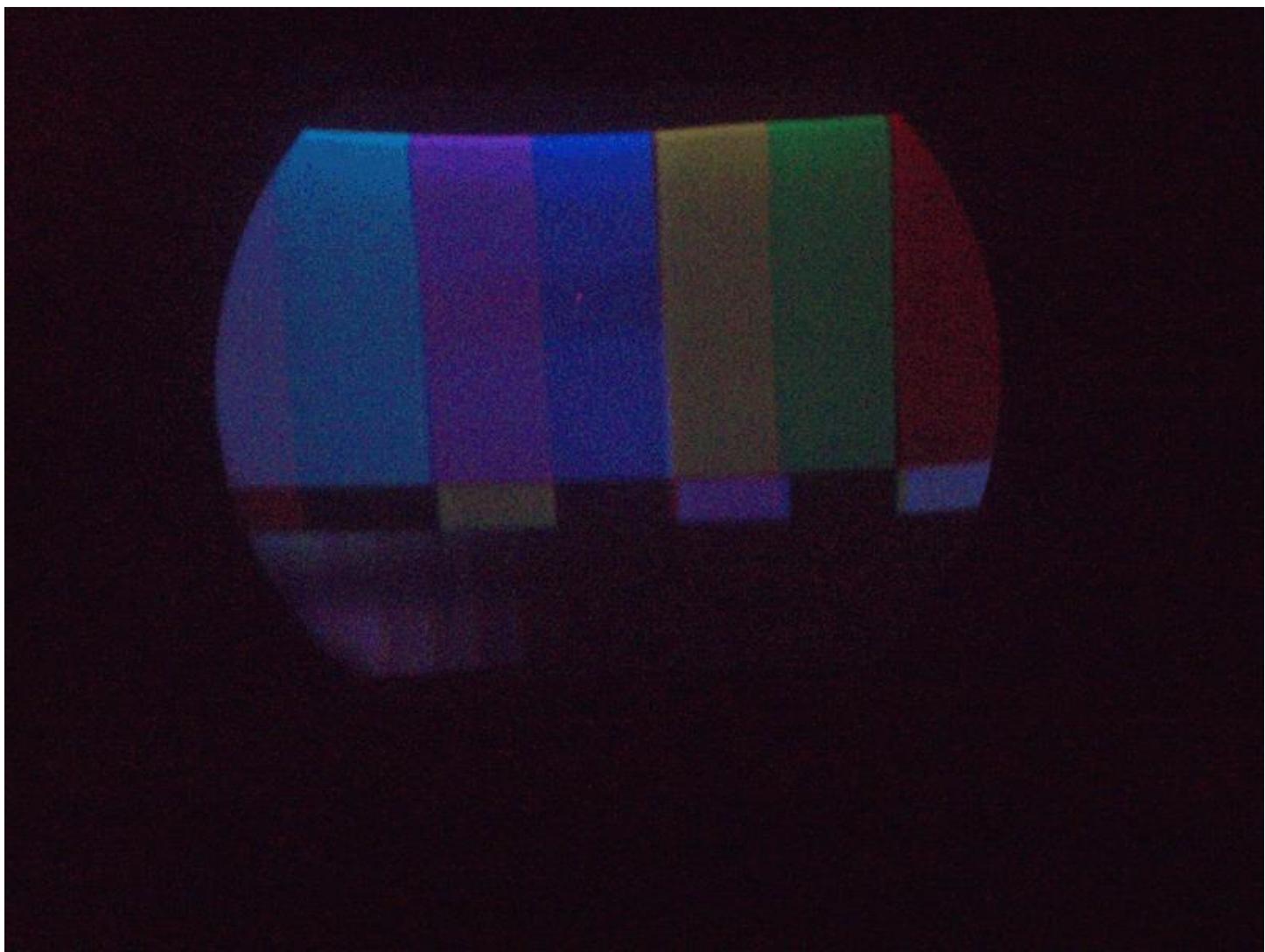


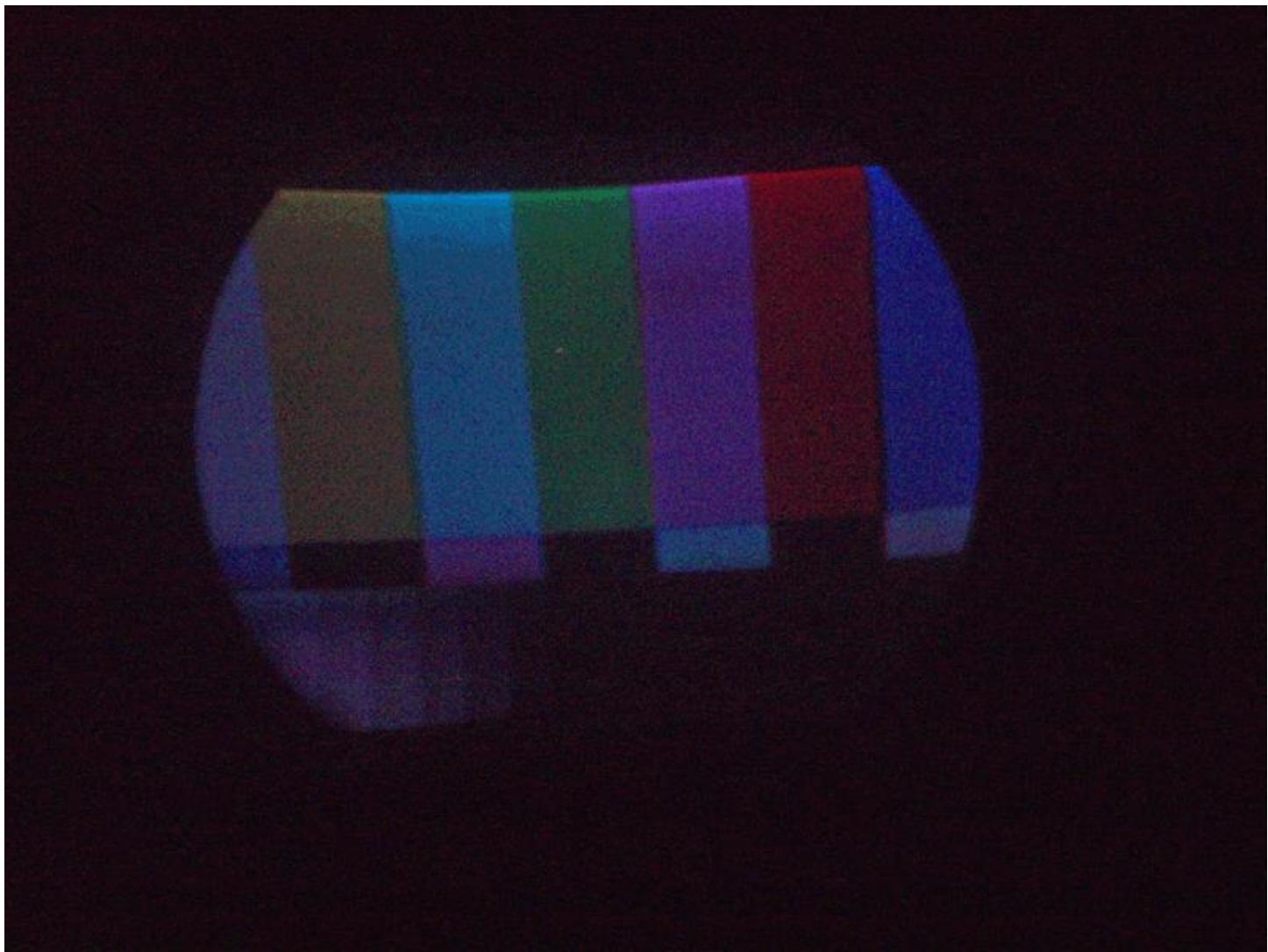


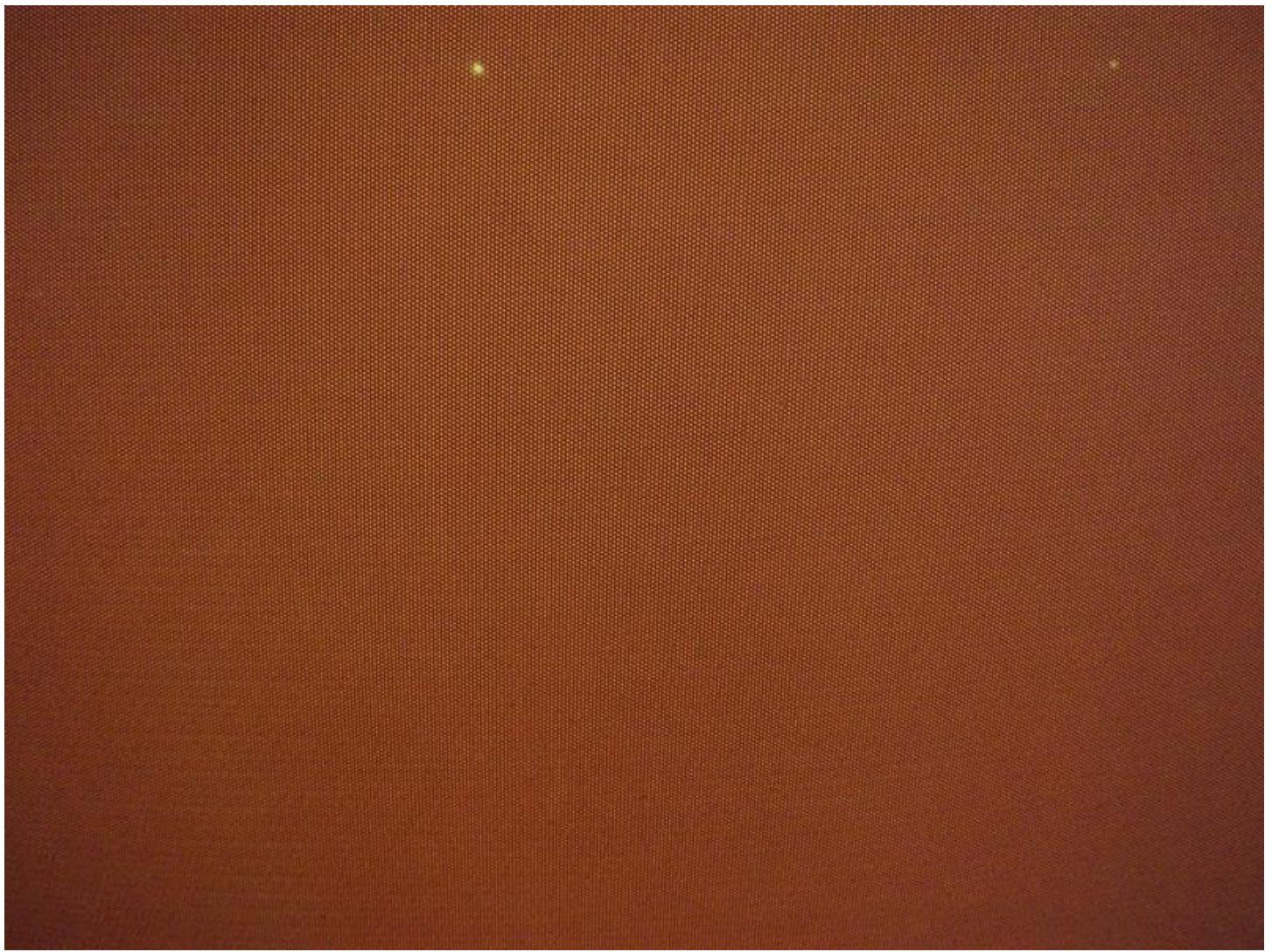


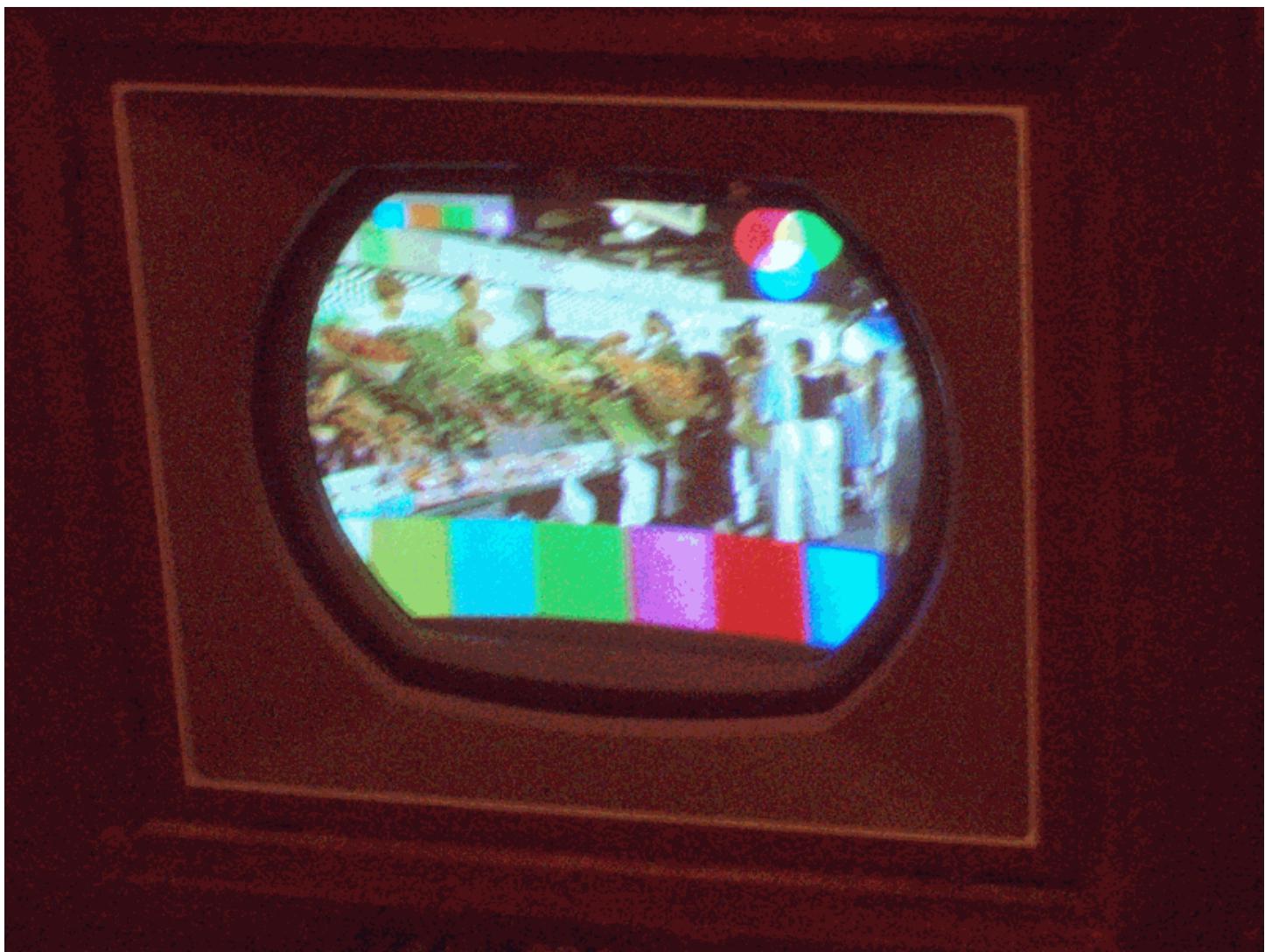










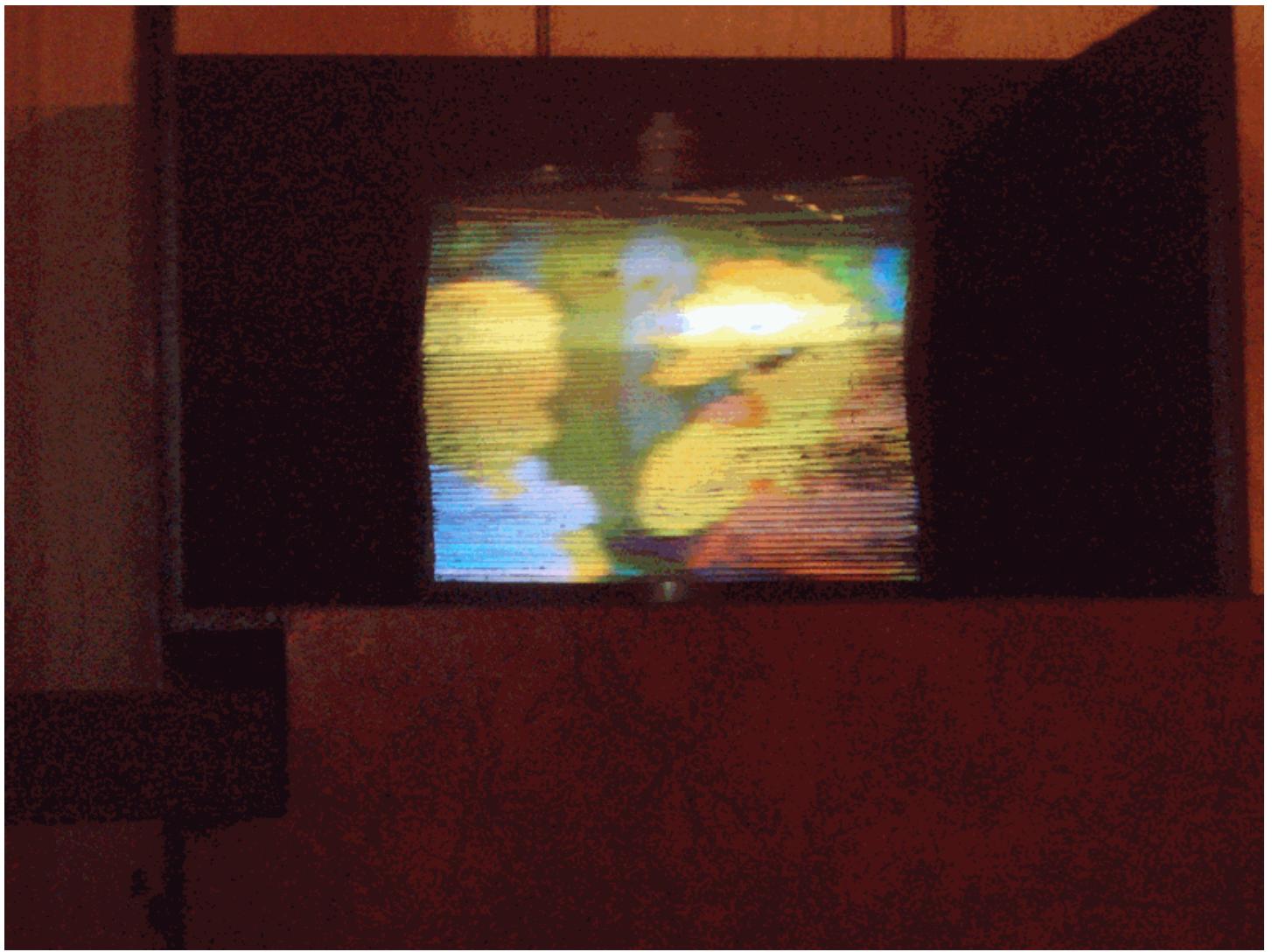














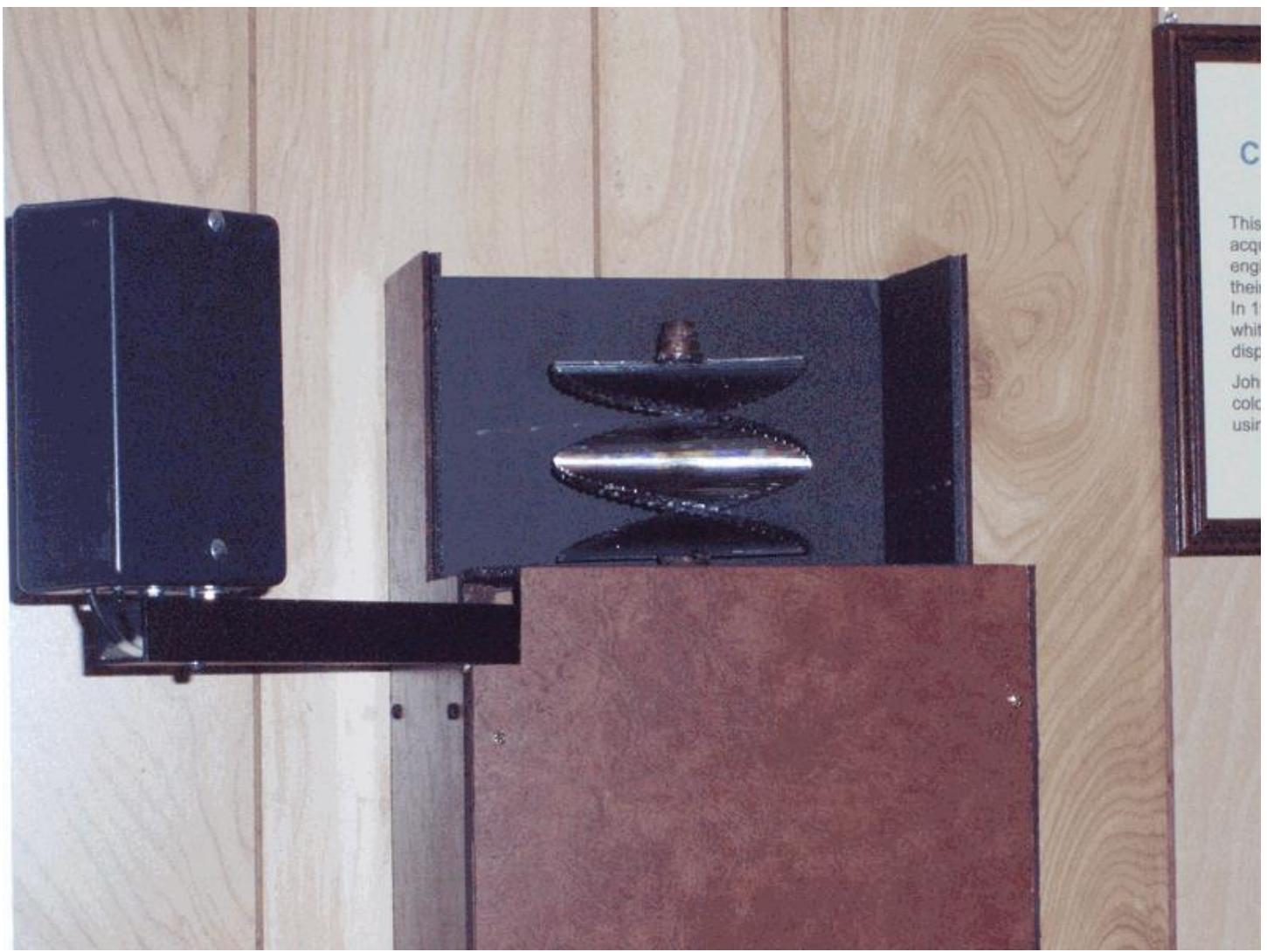






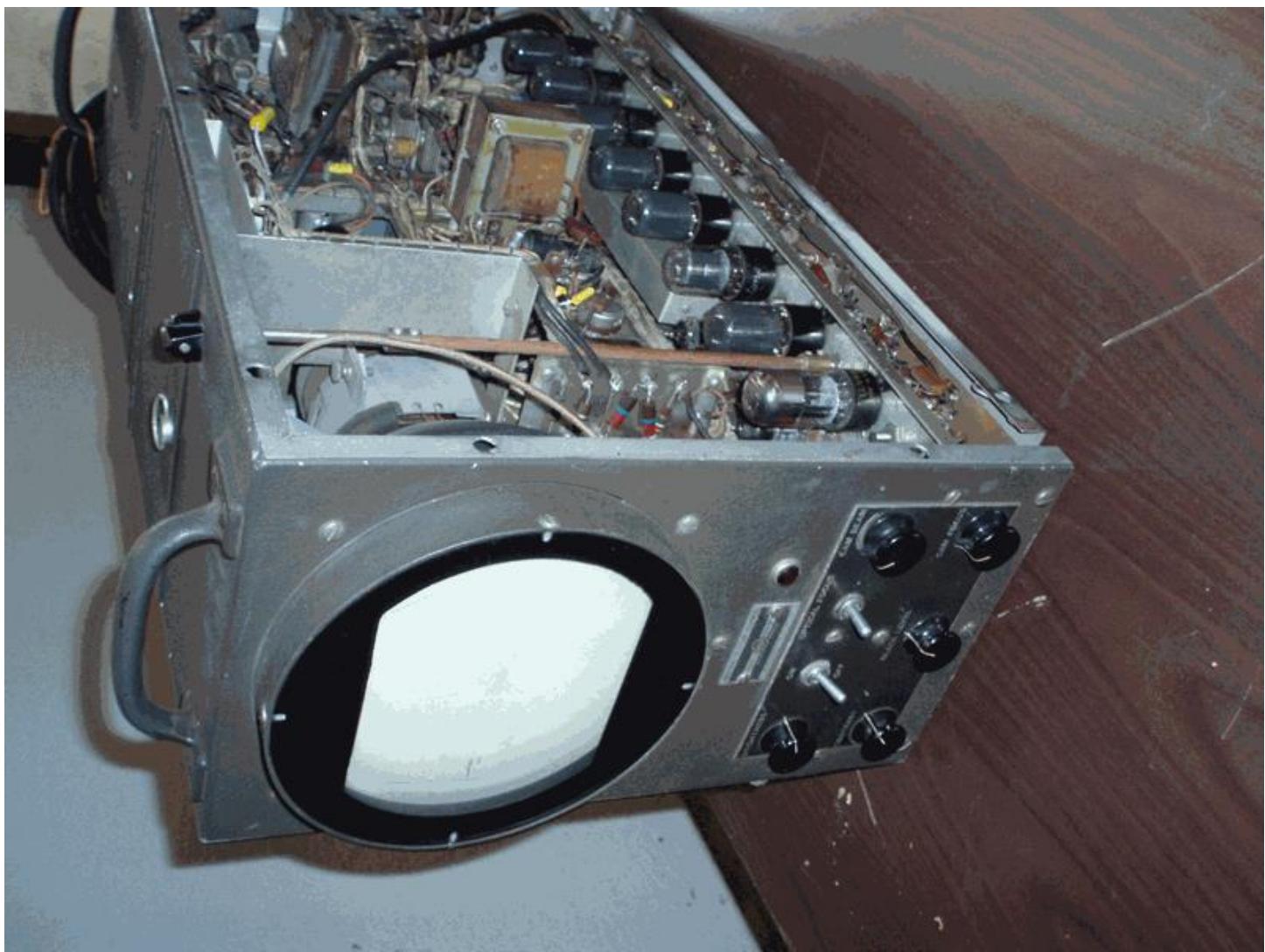


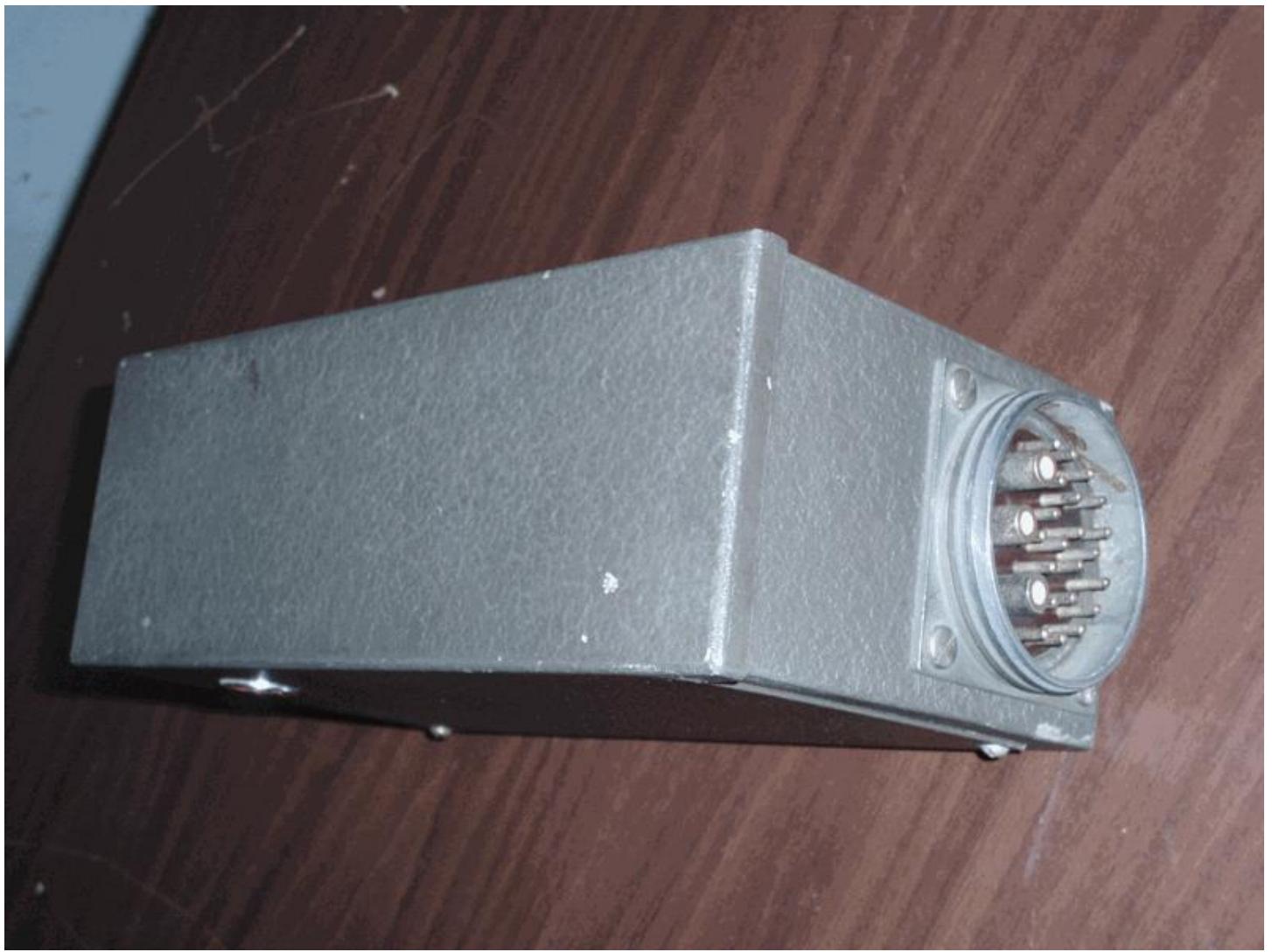




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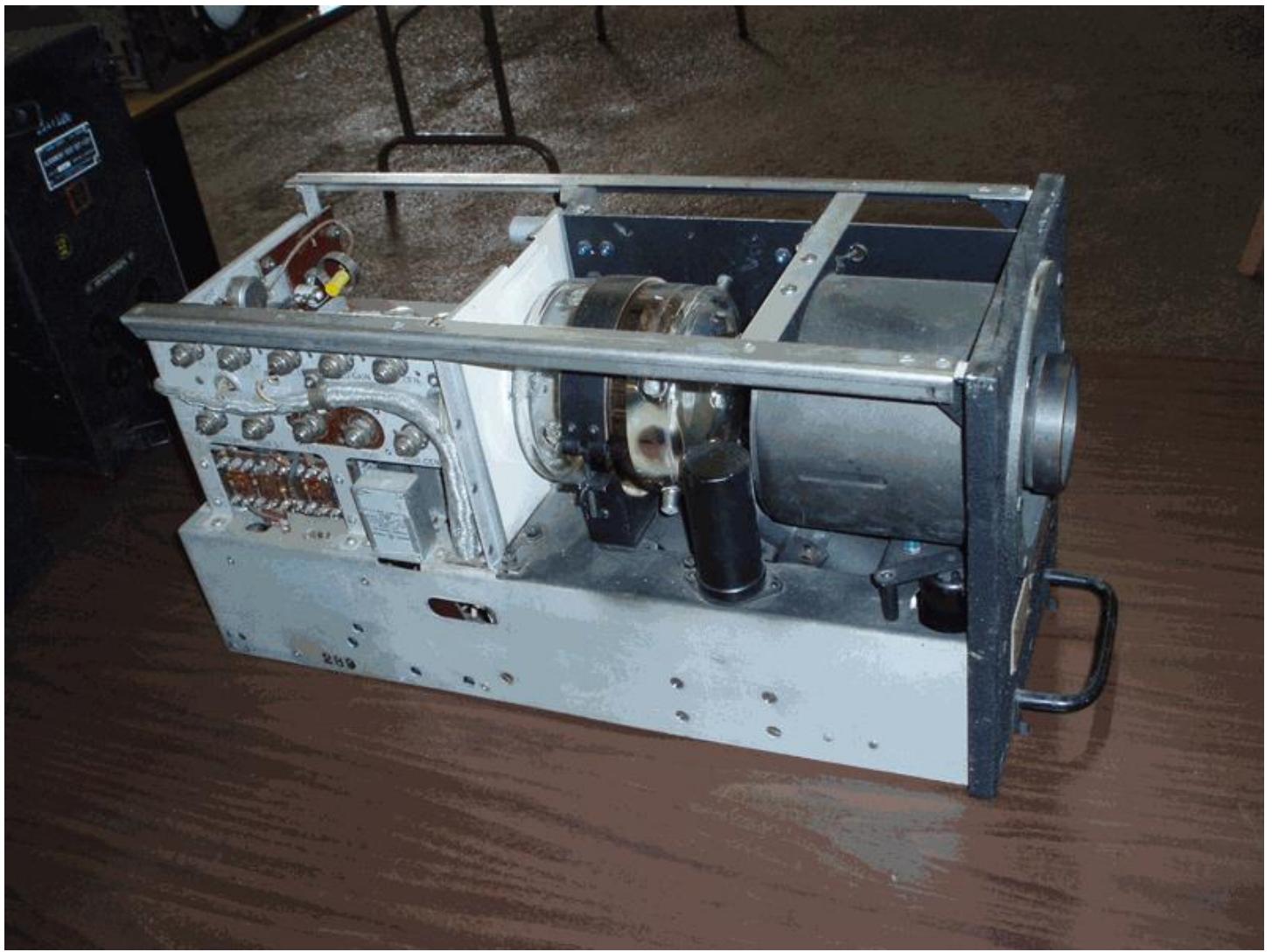








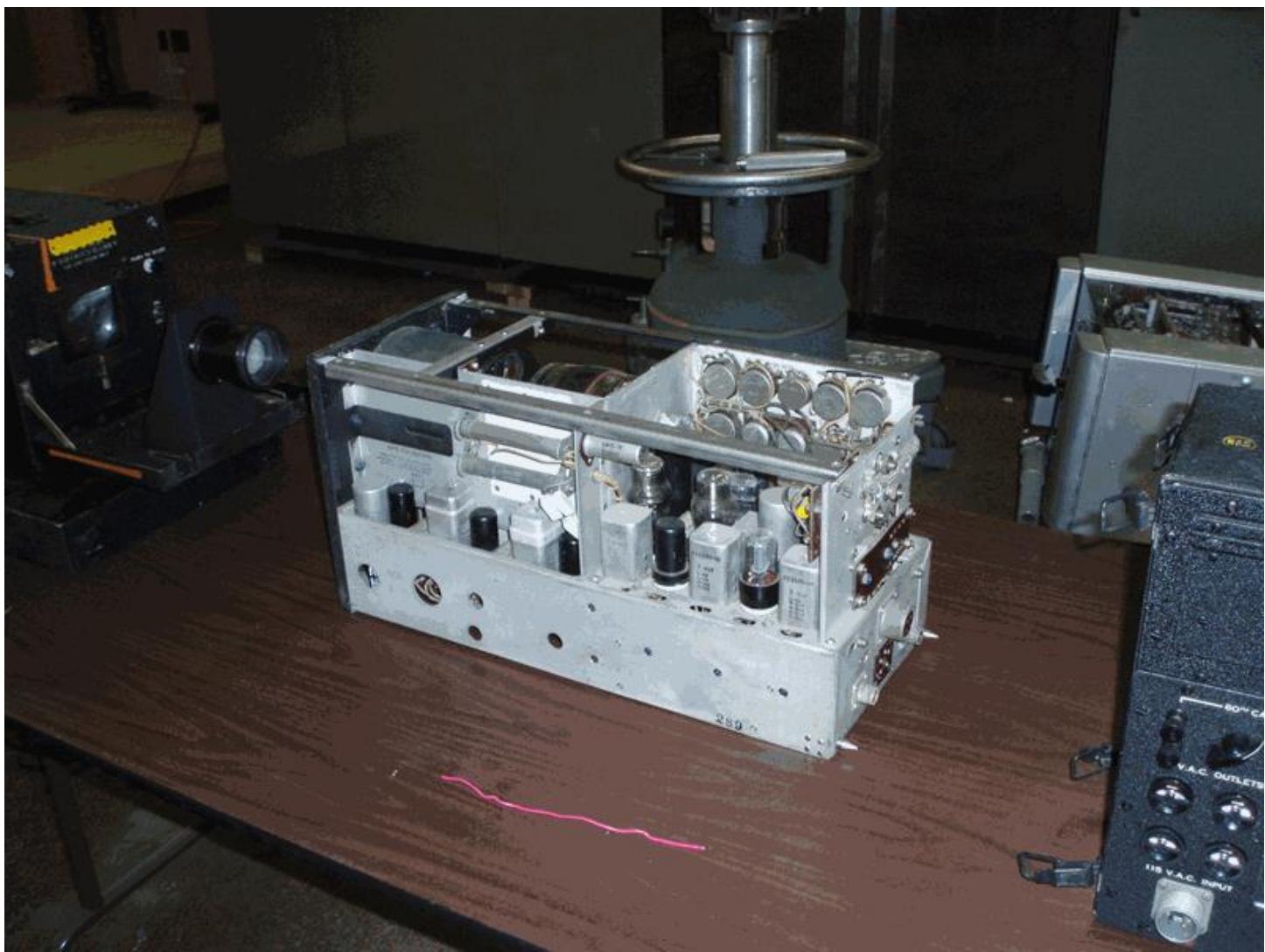




















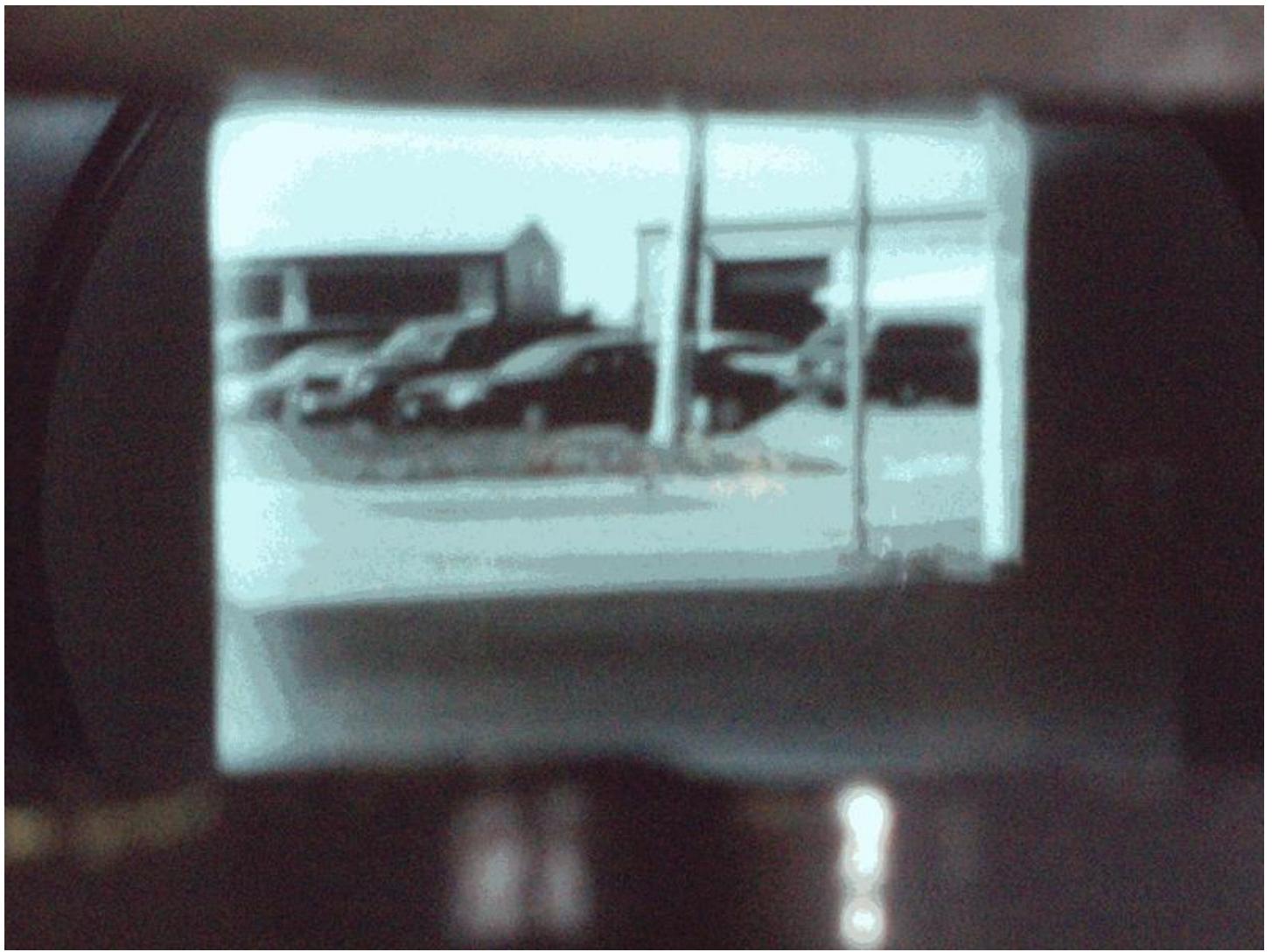


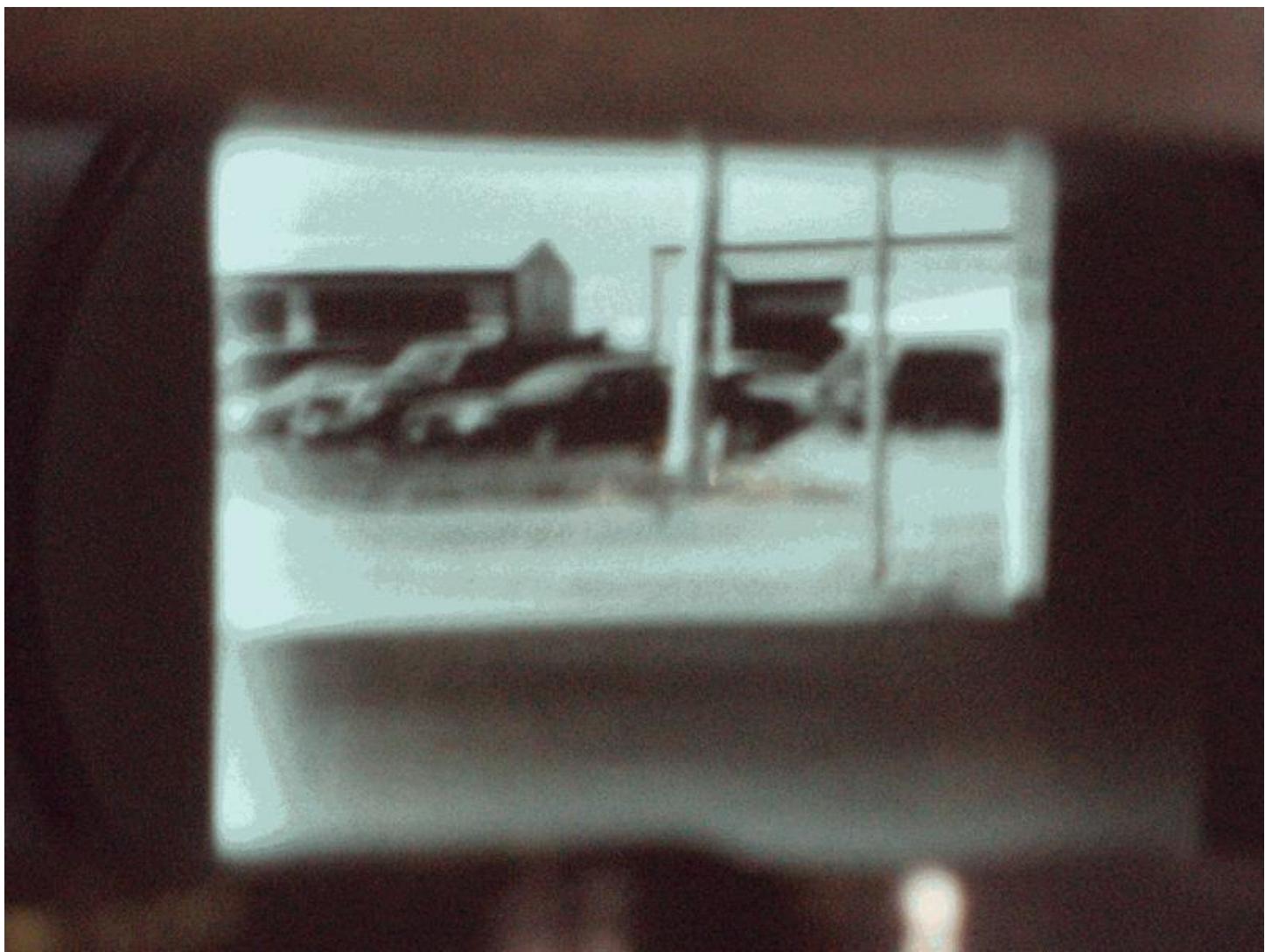




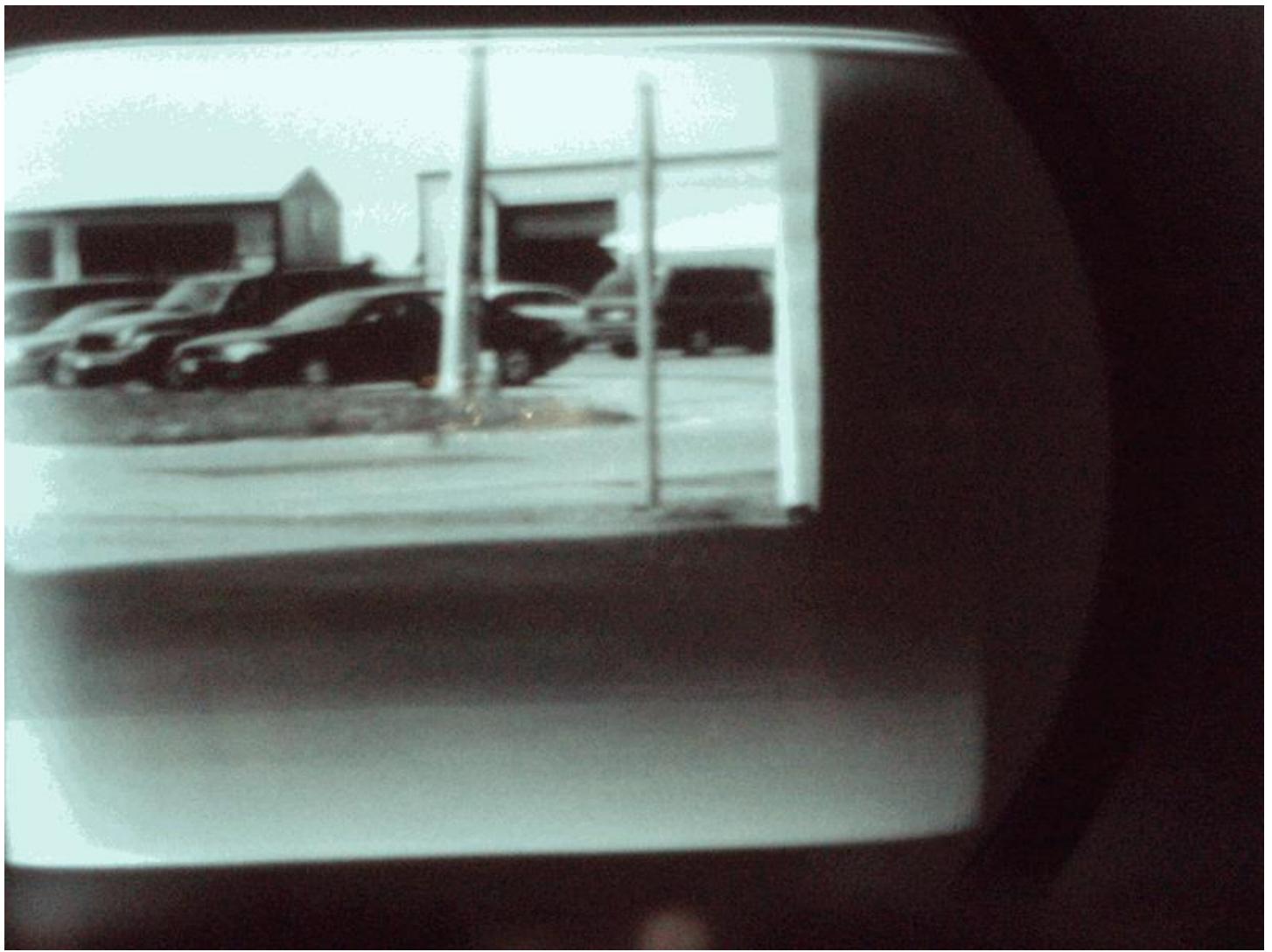




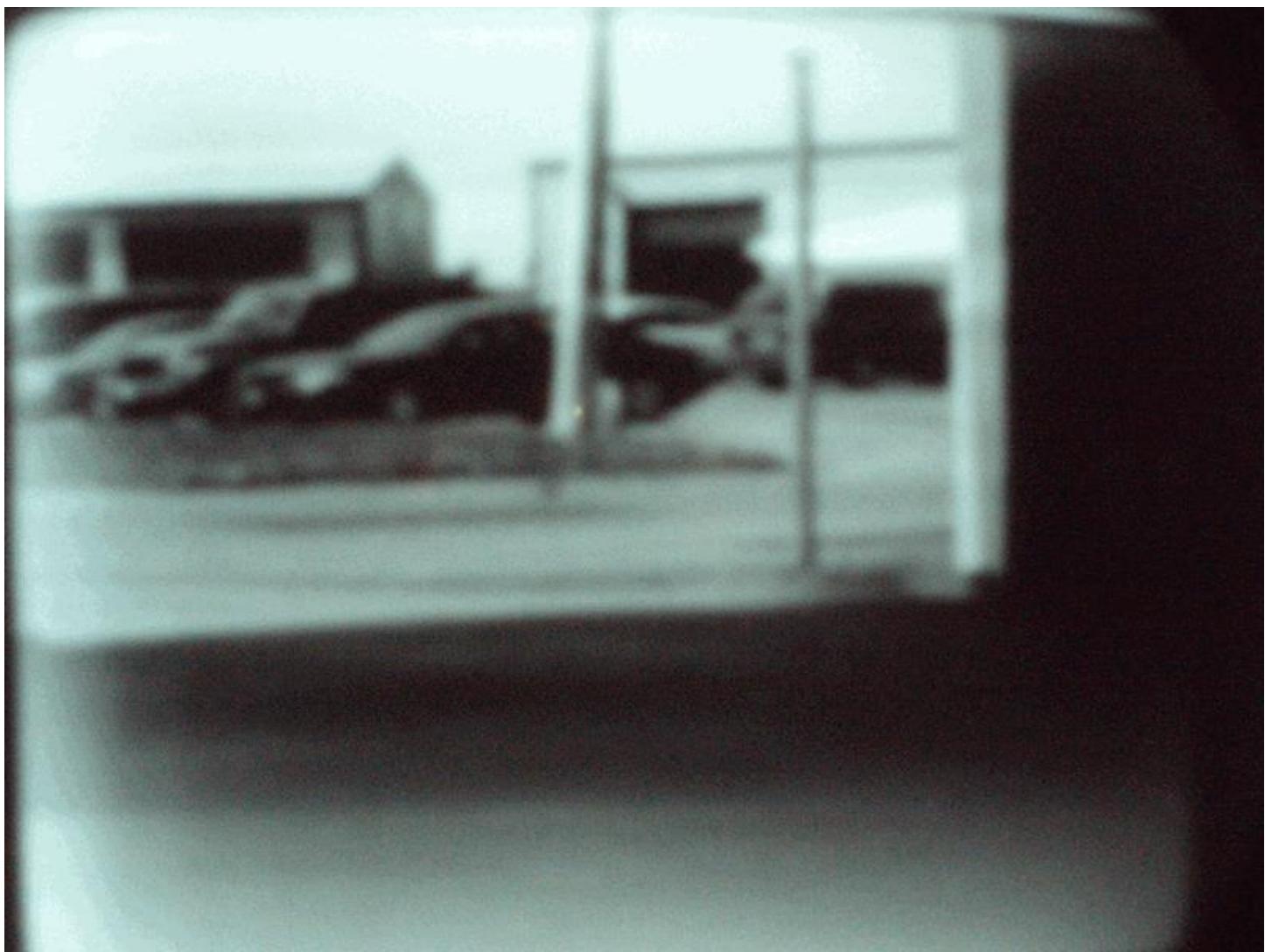








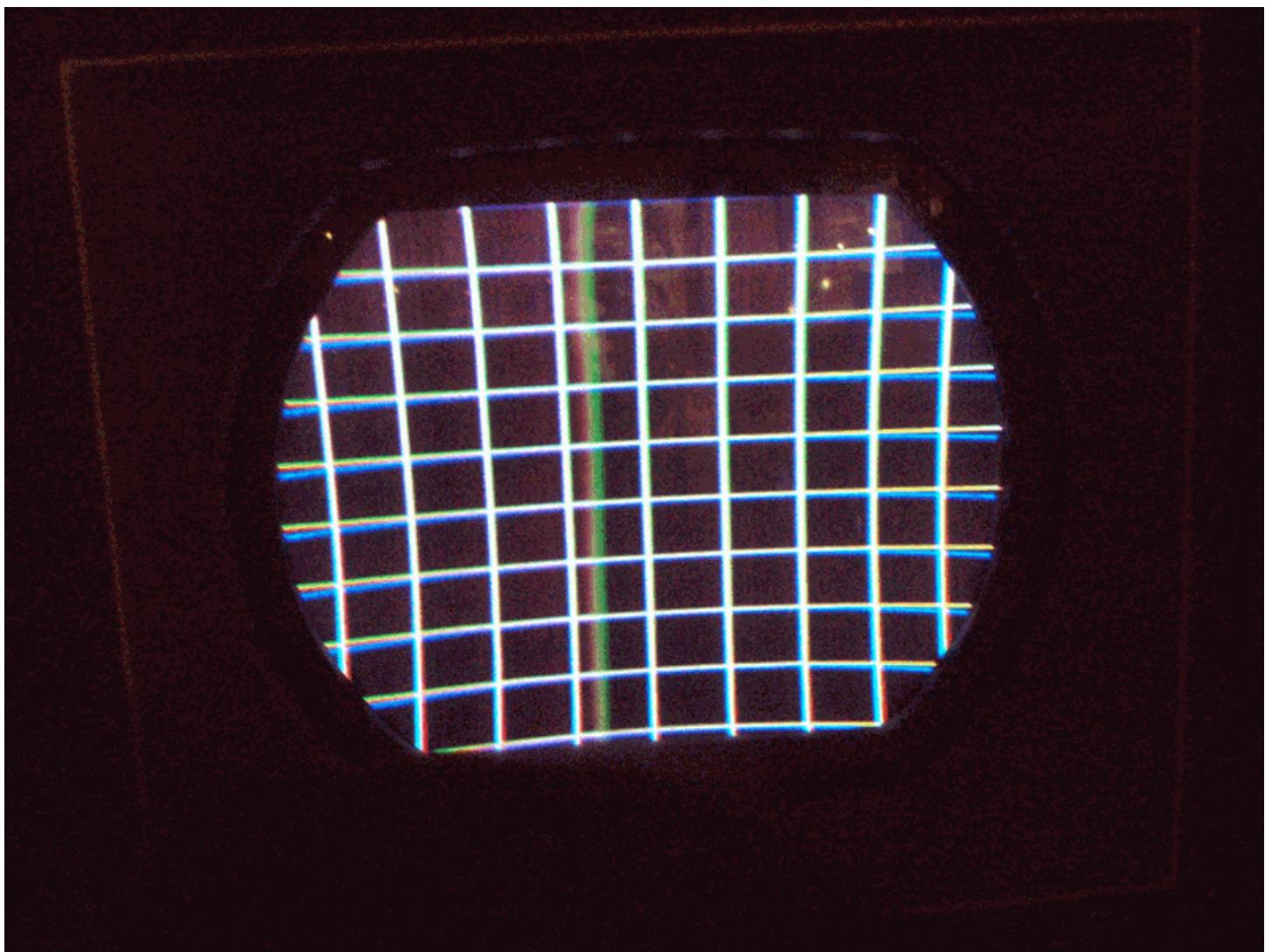






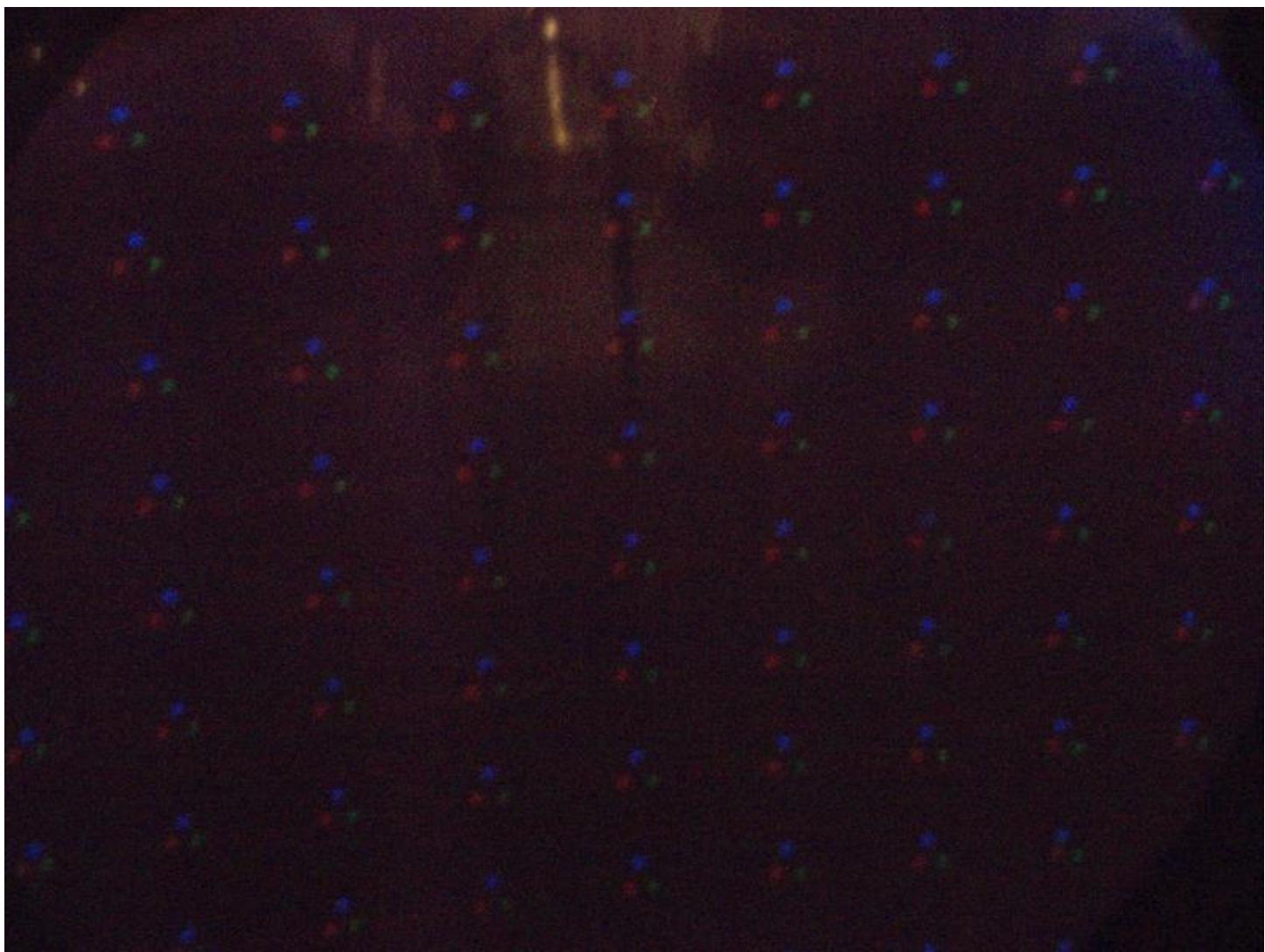


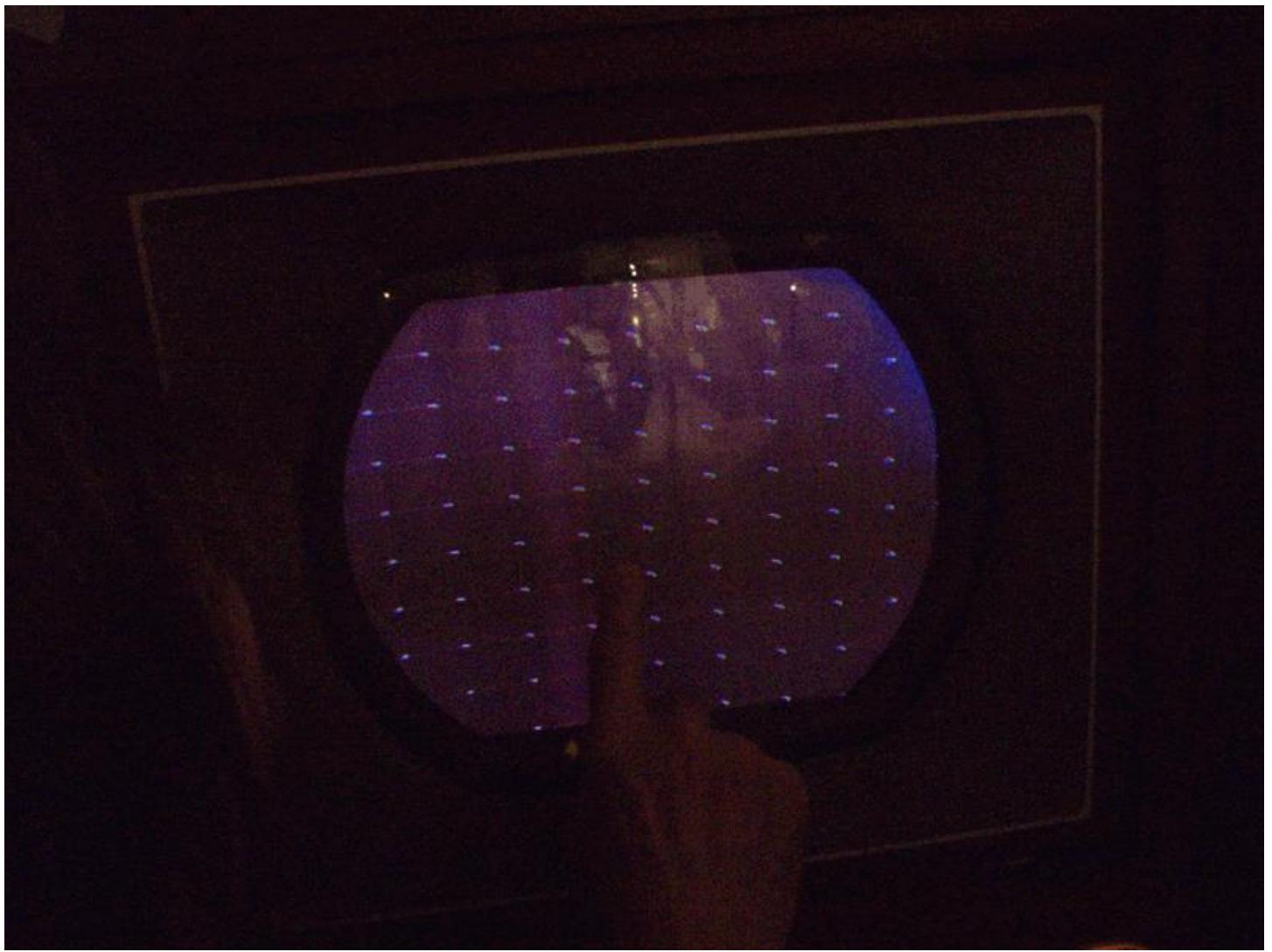












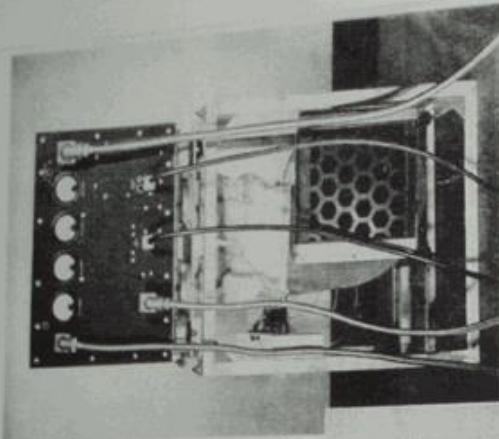




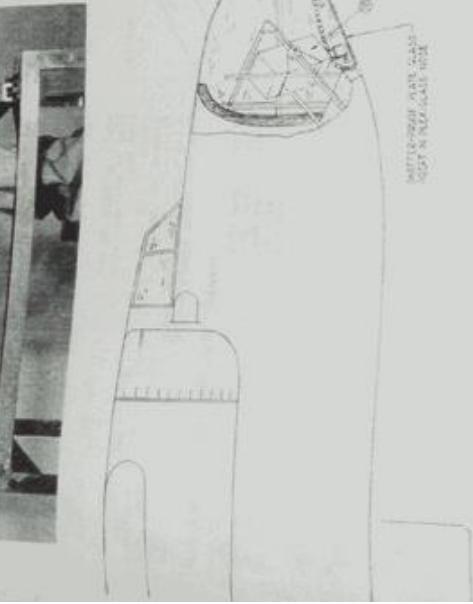
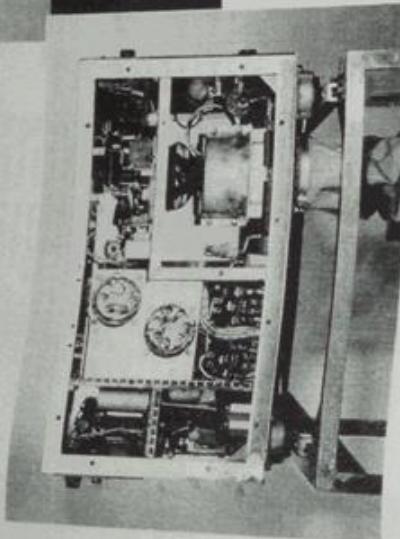


Airborne Television Reconnaissance a range of 200 Miles

The contractor, the NBC engineering department, the Marconi Company, has undertaken the development of this equipment in a Navy FM-1 three-plane television system. This system, which utilizes the Marconi television equipment, will be used in the nose and rear-seat positions of the B-52C aircraft. Associated equipment is approximately 1000 pounds in weight, and installation space is elaborate. The total antenna requirement is approximately 1000 square feet, which includes a power unit, transmitter, receiver, and two television cameras. The power unit, installed front of the tailplane, provides ground reception up to the other side of the fuselage, providing 22,000 feet.



The 1 K.W. 100 mc transmitter and receiver air filter unit with the RING equipment.



Interior view of the nose section of the B-52C aircraft showing the television equipment.

- (Left) Installation of RING equipment in a Navy FM-1 Marauder. Components are indicated by numbers on diagram, as follows:
1. Control Unit
 2. Radio Monitor Soc. 1
 3. Radio Monitor Soc. 2
 4. Oscilloscope
 5. Oscilloscope Calibration Unit
 6. Synchronizing Generator
 7. Control Unit and Line Amplifier
 8. Power Panel for Valve Equipment
 9. A.C. Junction Box
 10. D.C. Junction Box
 11. Radio Relay Transmitter
 12. Blower
 13. Plate and Bias Supply for (1)
 14. Plate and Bias Supply for (2)
 15. Plate and Bias Supply for (3)
 16. Plate and Bias Supply for (4)
 17. Transistor Plate and Bias Supply
 18. Condenser Assembly
 19. Conversion Unit

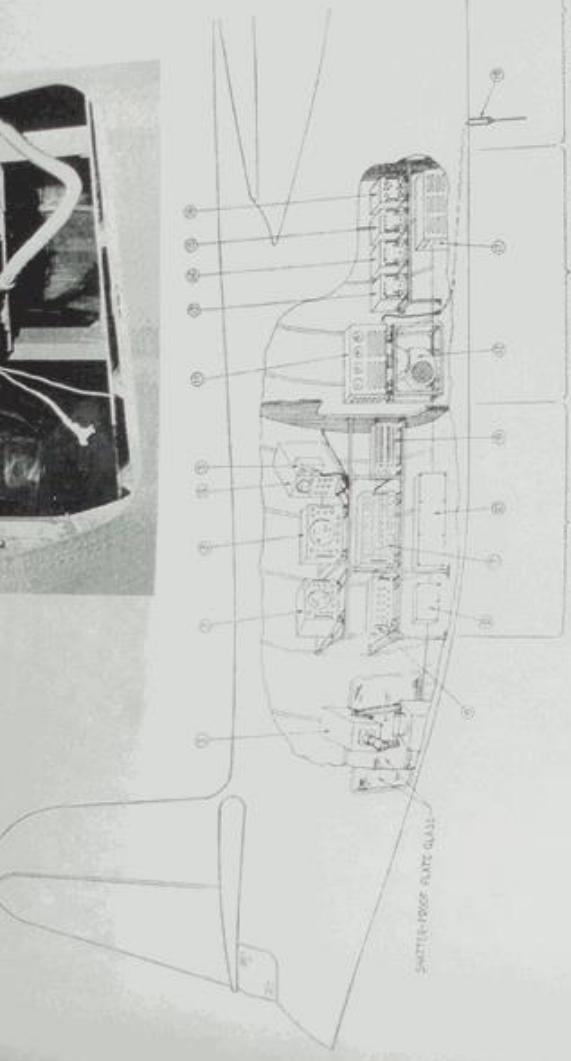
This is "RING" - a deluxe narrance Equipment with

The airborne television equipment (BLOCK and MODO) developed in the preceding pages were intended chiefly for use in guided missiles. Therefore were built first in small and light aircraft, then later provided range up to 20 miles, and then even sufficient for the purpose. However, when designed specifically of this type was intended for aircraft planes, and had to transmit a picture back to headquarters via television transmission over a mobile range was obviously desirable. Since the weight and size requirements for this are were less critical, a transmitter of greater power was indicated. Such an equipment, given the name RING, was developed for a Navy project on which RCA was

One of the RING television cameras as shown here. Item 19

is the tube of the plane as shown here. Item 19

the side profile of the plane mounted in the side profile of the Navy J.M.I. Alexander item 19 diagram below.



19. TELEVISION TUBE
20. IMAGE INTENSIFIER

19. TELEVISION TUBE
20. IMAGE INTENSIFIER

19. TELEVISION TUBE
20. IMAGE INTENSIFIER

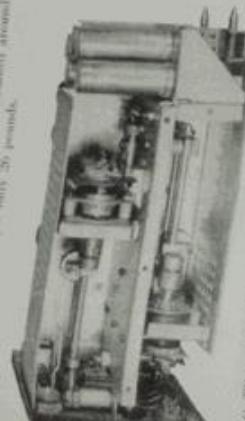
THIS IS THE "ROC" THE
HIGH-ANGLE GUIDED TELEVISION
GUIDED BOMB FOR WHICH
"MIMO" WAS DESIGNED



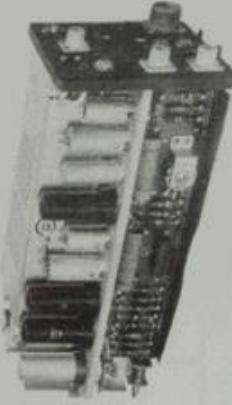
MIMO CAMERA from the side, with and without cover, is shown in the above views. A side view of the ROC, two inches long, this unit fits neatly into the aircraft control system and replaces the standard gun camera. The Miniature Image Optics and differing elements and video amplifiers are mounted in a short center tube. The Miniature Image Optics and amplifiers and video amplifiers are mounted in a short center tube. Components which make up the complete unit weighs only 26 pounds.



MIMO ANTENNA is a dish mounted on the rear of tail end of the ROC, as shown in the illustration above. In this position, it always faces in the general direction of the control plane.



O TRANSMITTER out of the case is shown in illustrations above in right side view (bottom) and end part of the transmitter, in left side view (right). The shock transmitter is approximately 6 inches by 12 inches deep. It weighs only 7 pounds as compared to the size of the BLOCK Transmitter. Output is approximately 5 watts megacycles.



THIS IS "MIMO", THE NEW STILL SMALLER AIRBORNE TELEVISION EQUIPMENT
 This equipment has just
 been declassified and
 is shown here for the
 first time for the



The equipment shown in the preceding figure was satisfactory for bombing, but relatively large, however, for airborne use. To meet this need, a camera that could be fitted directly into the bomb, which is where the MIMO equipment was developed, was designed. In 1944, the Image Orthicon Engineers developed the MIMO equipment, using only two tubes of the latter type. NEWS No. 10, Page 49, shows two tubes in the latter tubes for comparison. It is twice as long, however, i.e., about the size of an ordinary flashlight.



This is the complete MIMO equipment which goes in the ROC. The camera, transmitter and antenna are shown separately in the pictures on this page. The MIMO function box (right) has the dynamotor mounted inside, and yet is little larger than the HFDK function box (left). The large weight savings in addition to the savings in man units, together with some savings in weight of cables, result in a total weight of the MIMO equipment in the bomb of 50 pounds as compared to an equivalent weight of 100 pounds for the BLOCC equipment. In addition all of the MIMO units are smaller so that they may be more easily fitted into the "bombs" (airplane) of the ROC.

THIS IS "MIMO", THE NEW STILL SMALLER AIRBORNE TELEVISION EQUIPMENT

The development of smaller, more sensitive by war requirements—here are three stages

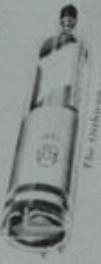


ORTHICON CAMERAS, coming in three sizes for specific applications, above show the first step in the development of ORTHICON, a high-gain and the cameras shown, left to right, represent a series of cameras which were manufactured by RCA during the war,



Orthicon Camera Chassis

ORTHICON CAMERA was the second step in the evolution of RACK cameras. This camera used the relatively new invention, ORTHICON, a high-gain tube developed just before the war by RCA engineers. This camera was an intermediate type to which was quickly incorporated and has a total of few more modifications.



Orthicon Camera Chassis



Image Orthicon Camera Chassis

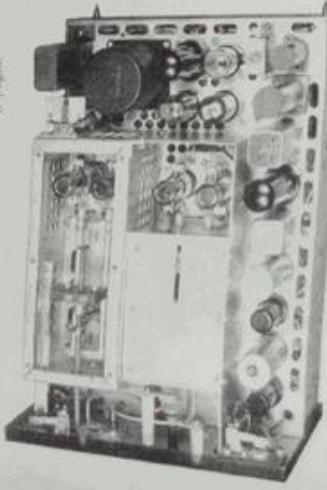
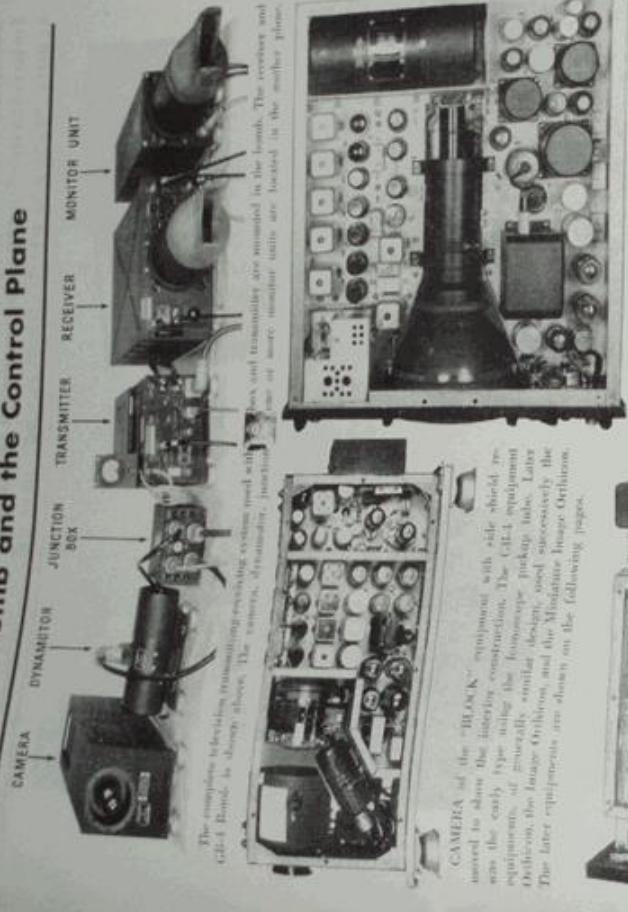


The Image Orthicon

IMAGE ORTHICON CAMERA represents the third step in camera development—and the final step so far as the RACK equipment was concerned. This camera, using the Image Orthicon, which is 100 times as sensitive as the Orthicon, made it possible to use the RACK equipment under conditions of poor lighting—as on dark, cloudy days or at night.

FOR DETAILS OF A NEW STILL SMALLER CAMERA SEE NEXT PAGE

Closeups of the Television Equipment used in the Bomb and the Control Plane



TRANSMITTER not used in the GP-4. This view shows a top view of the chassis removed from the cabinet. Circuit is of the master oscillator power amplifier type using two RCA 2575's. Output is about 15 watts unmodulated at frequencies of the order of 400 megacycles. Weight, including shock mounts, is 26 pounds.



MONOCOLOR UNIT out of the cabinet It contains a 7-lock picture tube, video amplifiers, and indicating circuits. Devion by video signals obtained from the receiver, it provides a picture duplicating that on the receive picture tube.

This is a series of pictures taken from the screen
as the Bomb approached a target in Germany



The series of pictures above (one sequence number in upper right corner) are single frames en-
larged from a 16 mm movie showing a B-17 Flying Fortress approaching a target in Germany. The rate
of approach can be judged by noting the increase in size of the white spot (apparently a plowed
field) near the center of the scene. Here again the reproduction leaves much to be desired. However,
this series is of interest as representative of an actual bombing run.

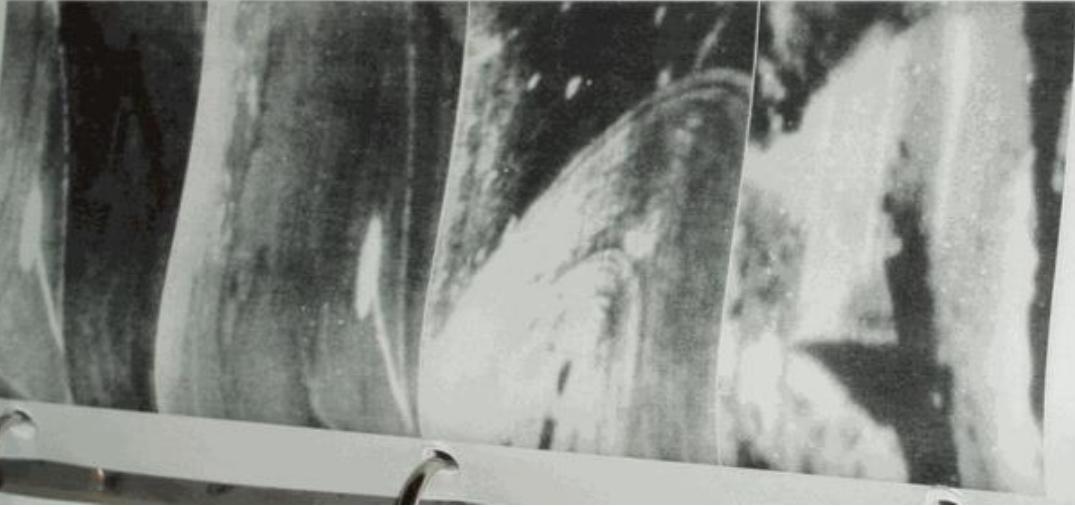
This is what the Bombarier sees -

The series of pictures on this and the opposite page show the Bombarier's view of his target as he sees it through the periscope of his aircraft. He need not leave his seat to make out his mission or to change his mind about the target. He can make out differences in strength, fitness, etc., of his target from the pictures of other targets. These pictures are taken from the aircraft of other bombers. They are taken at different altitudes. The Bombarier's own aircraft has a bomb load of 10,000 lbs. and the aircraft of the other bombers have different bomb loads. The Bombarier makes out the size of the target and the amount of damage required to make it useless. These small bombers reduce the distance between the Bombarier and his target to 1000 feet. This makes the target no more than a dot in the picture.

The picture at the left, on the other page, of the target shows the target seen by the R.A.F. Bomber Command. It is taken by the cameras in a G.H.C. Bomber. The target is a small pyramid in the center of the whole circle. The large triangle, within which the target lies approximately thirty feet on a side,

is the view the G.H.C. Bomber hasographical much closer to the target and only a portion of the circle is visible on the screen. As the planes fly over, take the direction of the bomb load deviated from the course to the target, and the rated explosive exploded at low level, the target. This accounts for the tilted effect of the picture with relation to the surface of the screen.

This is a frame of the same movie just before the bomb struck the target. A feature of the television bomb, which is of great advantage, is the fact that as it approaches the target the area portrayed on the screen becomes smaller and the target increases rapidly in size. This makes for greater accuracy.

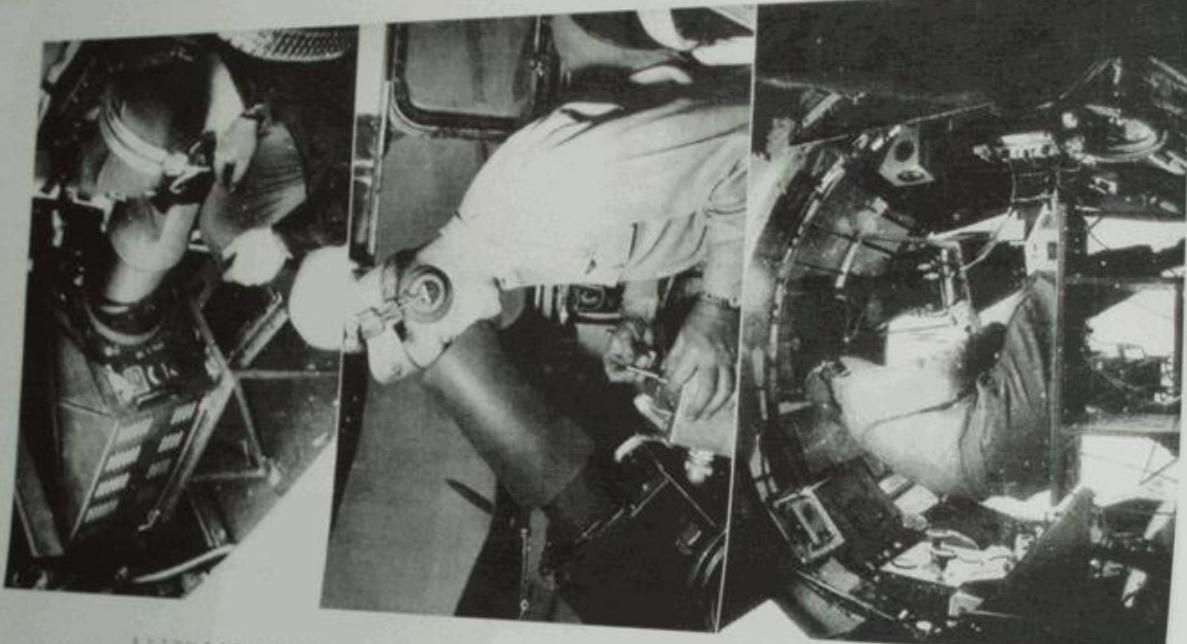


This is how
its course is
Controlled -

The following is a sketch of the operations of the *Leavenworth* prison, from the time it was established to the present day. The prison is situated in a valley, about one mile from the city of Leavenworth, Kansas. The buildings consist of a large main building, containing the cells, and a smaller building, containing the kitchen, laundry, and other offices. The total area of the grounds is about 100 acres. The buildings are made of stone and brick, and are well constructed. The prison is surrounded by a high fence, and is patrolled by a guard at all times. The inmates are required to work in the kitchen, laundry, and other departments. They are allowed to have visitors, but are not permitted to leave the grounds without permission. The inmates are required to work in the kitchen, laundry, and other departments. They are allowed to have visitors, but are not permitted to leave the grounds without permission.

The animal stands lurching and swaying on the hind legs, the spinal column being very lordotic. The pelvis at its greater pelvis, or pubic, eminence, is rotated so as to show the sacrum, with the sacro-iliac joint, the sacrum being rotated outwards. This illustrates the principle of the sacrum in the depth. When the picture is reversed, it will be seen that the sacrum, from the point of view of the sacro-iliac joint, is turned to the right, the sacrum being to the left, the lumbar spine being rotated to the right, the sacrum being rotated to the left.

When does evolution



type, such as the B.I.T. frame in a larger one of these pictures, the hand-camera control equipment is stabilized in the hand-camera's compartment as shown in the diagram and text in this picture. The monitor unit and the camera outside the hand-camera are the same as in the picture above. The hand-camera in this view is holding in its hands a control switch which is used to release the hand. After releasing the hands and guiding it to the target as described above.

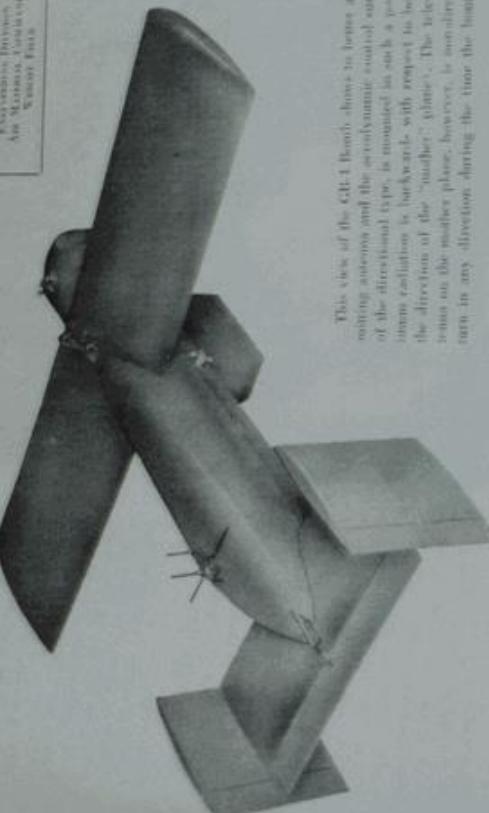
This is what a Television Bomb looks like.



This is a side view of the Army's GBU-10 television-guided glide bomb. The television camera is in the nose, suspended below the main surfaces of the bomb. The front third of the cylindrical body is finished off with a pointed nose cone which holds the picture back to the mother plane. In the tail section two monopole whip antennas are mounted, one on each side of the vertical stabilizer, which employ the received signals to control the bomb's course.



Photograph by Page 30 in 31
Courtesy
Rockwell International
Air Systems Division
San Antonio, Texas

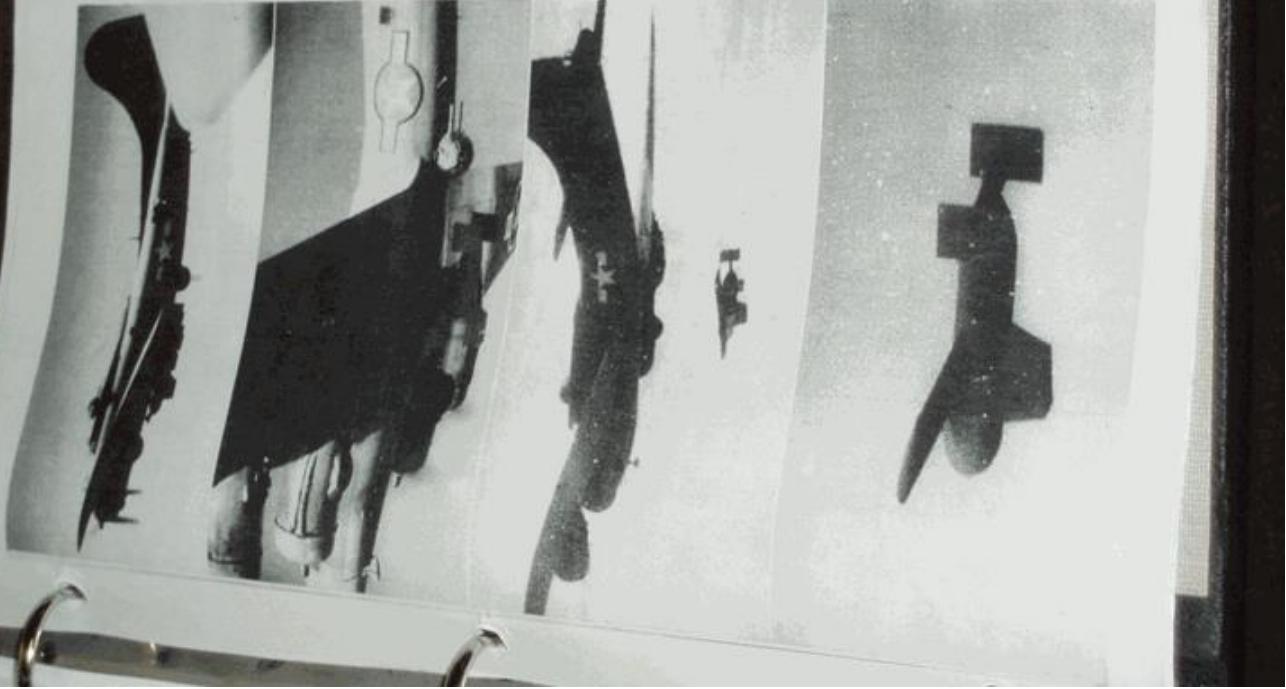


This view of the GBU-10 bomb shows its better advantage: the transmitting antenna and the aerodynamic control surfaces. The antenna of the directional type is mounted in such a position that the maximum radiation is backwards with respect to bomb's flight direction, in the direction of the "mother" plane. The television receiving antenna on the mother plane, however, is omnidirectional so that it may turn in any direction during the time the bomb is under control.

This is how the Bomb is Launched -

The bombs were carried by two C.R.A. Gliders. The view of left shows a B-17 equipped. This photograph was made in 1943, in a B-17 carrying a C.R.A. Glider. However, while the C.R.A. Glider has been improved, the B-17 is still used.

During the flight from the base to a point within 30 to 35 miles of the target, the C.R.A. Glider bomb is suspended on an external hook, such as standard bombs or other types of delivery hooks, designed to be carried on the British B-17. This view at left shows a single C.R.A. attached to the bomb rack of a B-17 Flying Fortress.



This photograph shows a C.R.A. Glider bomb just after drop away from the B-17 mother plane. After dropping the C.R.A. the母机 plane must continue on a straight course for many miles at a distance of 10 to 15 miles from the target, while continuing the course of the bomb to the target.

C.R.A. Glider Bomb. In Right. The explosion camera in the vanicle is tilted slightly downward to compensate for the fact that the rearview of the target is always tilted slightly upward with respect to the actual direction in which the bomb is traveling. (Smoothness in these pictures is due to the fact that they are enlargements of single frames of a 16 mm motion picture under slight magnification.)

This is the Television Equipment in the Bomb -



This is the television equipment which is mounted in the body of the GL-1 glide bomb. It is such a bombing that is being developed by the Germans in the aircraft in which the bomb is dropped. The equipment shown here is an early type which would be used in a cockpit radio set. It consists of the following: the transmitter and receiver, the Master Control Unit, the Oscillator and Oscillation, the Intermediate Frequency, the receiver, and the Master Control Unit.

Photo by Lt. Col. A. J. Dwyer
from the *Review*, Jan. 1942.



Front section of the GL-1 glide bomb, with upper half of the fuselage removed to show the arrangement of transmitting and control equipment. The storage battery and dynamotor power supply are at the front. The transmitter is in the front cabin in the center. The flexible control cable goes to the antenna can be seen. The box in the side of the fuselage contains the receiver for receiving signals from the master oscillator and the servomechanisms which controls the



AT RIBBLE, IN 1954

Japan's third "secret" was a 2000-tonne warship, the R-179, and R-211, former leaders of the Chinese fleet, which had been captured by the Communists and their supporters in the Korean War. The ship was converted into an aircraft carrier, equipped with catapults, and renamed the "Nanchang". It was used to train Chinese pilots. The BLOCK III installation was mounted on the deck of the ship, and its "secretive" qualities were well known. It was also used to train Chinese pilots, and the ship became known as the "Chinese Flying School". The ship was used to train Chinese pilots, and the ship became known as the "Chinese Flying School".

It was in August 1954, in the Northern Solomons, when the Japanese submarine I-401 was sunk in the Pacific Ocean, that the Japanese submarine I-401 was sunk in the Pacific Ocean, and the Japanese submarine I-401 was sunk in the Pacific Ocean.

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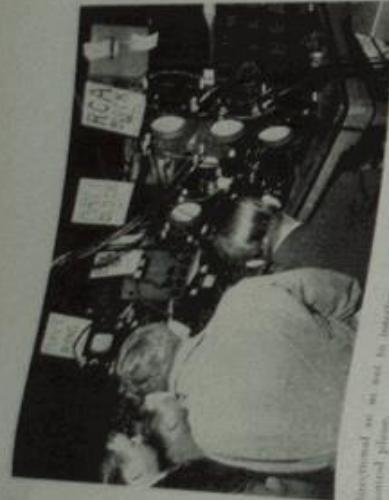
forers who have been in the U.S. for 20 years now, the GDR's capital, Leipzig, has become a major industrial center, and the importance of East Germany's economy has increased. The government has decided to invest more in the industrial sector, particularly in the chemical and pharmaceutical industries. The GDR's economy is still not as developed as West Germany's, but it is improving rapidly. The GDR's government, led by Erich Honecker, has made significant strides in recent years, and the country is becoming more stable and prosperous.

卷之三

no great work, however hard, dangerous or monotonous seems
to the forthcoming armchair writer in Britain, many observers
will witness the evidence, and its importance, of much more serious
histories of many miles, by means of BLOCK II.

For more details of the Tideman Rule see the article cited in the following sources.

In March 1943, the Soviet reconnaissance program was expanded by the addition of the R-1000, which was designed to penetrate the British Isles. The R-1000 was a long-range aircraft with a range of 1,500 miles. It was used to conduct reconnaissance flights over the North Sea, the English Channel, and the Atlantic Ocean. The R-1000 was also used to conduct bombing raids on British targets. The R-1000 was a four-engine aircraft with a maximum speed of 350 mph and a range of 1,500 miles.



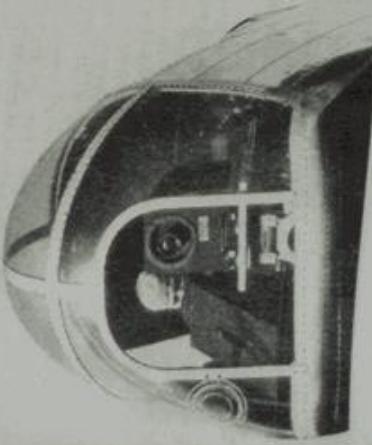
Soviet photo reconnaissance crews used to conduct flights with minimum visibility in the sky, and often had to rely on their own judgment to determine if they were being followed. They would use various techniques, such as changing altitude and route, to avoid detection. However, the lack of experience and training often led to mistakes, such as flying into anti-aircraft fire or crashing into terrain. The Soviet photo reconnaissance program was eventually discontinued in 1945, after the end of World War II.

Over time, the Soviet photo reconnaissance program improved significantly and became more accurate and efficient.

During this time, the Army, the Navy, and the Air Force became very active. Other than the three services, it is important to note that the KGB was established to train and recruit spies and saboteurs, mostly from research and development units. The NRU established Sections of Dissemination under the direction of Dr. O. V. Shukley, and later Dr. D. P. M. Gerasimov. In further development of information for combat units, military liaison officers were made in the form of Soviet agents. These agents were sent to the bases of Soviet forces in East Asia, Southeast Asia, and Central Asia. They were responsible for providing intelligence to Soviet commanders and ensuring that their operations were successful.

The Soviets were having their problems, however. The Navy, while doing some experimentation with a glider—“GLOMIR,” which in later tests proved very satisfactory. The Army Air Force, on the other hand, was experiencing difficulty with its aircraft. The aircraft used in the photo reconnaissance program were not able to withstand the stress of the mission. The aircraft used in the photo reconnaissance program were not able to withstand the stress of the mission. The aircraft used in the photo reconnaissance program were not able to withstand the stress of the mission.

The Soviet photo reconnaissance program was discontinued in 1945, after the end of World War II. The aircraft used in the photo reconnaissance program were not able to withstand the stress of the mission. The aircraft used in the photo reconnaissance program were not able to withstand the stress of the mission.



TELEVISION RECONNAISSANCE

The television

reconnaissance

mission in the photo

RECONNAISSANCE

which was first introduced in the mid-1940s, is attributed to the use of the television camera. The camera in the jet plane

was picked up by the cameras in the aircraft which was to be as much as 200 miles away (see Photo 40). The picture on the screen of the television receiver shows the photograph (illustrated on the cover of this page).

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reconnaissance

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**A TELEVISION-GUIDED
HIGH-ANGLE ROCKET**



In April 1944, the Navy began testing the first television-guided rocket, the "ROTC".

documented and this apparatus, now

has still not had enough time to accomplish and successfully prove development. The next significant marks are: Two more years passed before the United Air Lines, Inc., made its first presentation of the United Air Lines, Inc., to the public. This was in 1937, when RCA's newly designed RCA television field equipment, including the polarization-free television system, was installed in the newly-constructed television studio and control room at the new Army and Navy City in New York. This presented, as a battery of independent television sets, a television system which was sufficiently strong. RCA's program, on light-weight transmitters, was started by a television group headed by W. A. Vinton, and M. A. Trahan, and W. N. Pick, including a 15-seat, 109-ac. complete television system, and about the size of a small suitcase, was under test in the laboratory.

In July 1941, this television television system, installed in place of the Philadelphia Navy Yard, was tested in an ancient model "BLOCK" plane of the Philadelphia Navy Yard, and flight tested. All the difficulties were met and overcome on the drawing board and his first flight into insignificance. Plans, however, like voltage

problems, high humidity, and temperature changes, were important, and several problems were encountered. These, in turn, led to the development of high frequency television, which was necessitated because of the continuously changing propagation path between the transmitter and the receiving plane.

One by one these problems were solved by the diligent efforts of the engineers of the engineering groups which included Antonio Montini, Ed Clark, Dr. H. N. Kostomski, John H. Haun, Morris, and their fellow workers. Over 500 BLOCK transmitting equipment (the early design) were made by RCA, Canada plant and delivered to the Army, Navy, and NBC. This equipment (BLOCK I) was built to 114 mph. By the latter part of 1943 the BLOCK III transmitter, consisting of three units, operating in the 300 mph range, was built through production. This equipment, of which 1000 were made, was specifications that were considered impossible two years earlier.

The video system, including the synchronizing oscillator, camera, and auxiliary circuits were derived from the AF transmitter which, in its own separate case, was designed from the AF transmitter of approximately fifteen watts, as designed to produce 264 and 172 megacycles. The BLOCK III receiver made use of a 7-inch viewing tube and was tunable over the entire 264 to 322 mc band. The transmitter used a directional antenna radiating towards the plane's tail, but the receiving antenna was omnidirectional.

GLOMB

A TELEVISION-GUIDED,
GLIDER BOMB



In October 1945, the Navy disclosed some of the details of the work it had been doing with RCA since the end of World War II. One of the most interesting pieces of news was the "GLOMB", a television-guided, radio-controlled glider which was loaned to the country of Japan by a team plane, which, after launching the glider, could follow its course to the target. The model F11 GLOMB, about 10 feet long, was built in a house in a suburb of San Francisco, California, and was used in a television-guided aircraft which could carry a very heavy explosive load.

GB 4.

A TELEVISION CONTROLLED RADIO CONTROLLED GLIDER MODEL



Kazanov worked alone. The "Zvezda" team did not form the main design group, he explained. The Bureau made the decision. The following pointers have been extracted from his report on building the model:

"These have been effectively utilized in our flying work. The methods of construction used are simple, reliable, and inexpensive. The aircraft has a simple frame, a small number of members. From the report a small framework is used to support the aircraft in its original form. The frame is shown in smaller, removable members to avoid breaking it when the target, thereby reducing the chance of damage to the frame. The frame under these conditions is easily assembled by the builder. The frame is also suitable for assembly in a short time. The aircraft is easily lowered or raised by means of the frame. The "Zvezda" work has been performed at the expense of radio-controlling and launching the aircraft. In itself, there are no difficulties in launching the aircraft. The aircraft have the same possibilities as a radio-controlled glider. The possibilities effectively cover all methods, however, and automatic control of the aircraft is automatically shown when they are beyond visual contact with the operator."

The author of the publication evidently was not familiar with the existing literature, as no mention was found in the newspaper reports regarding a

similar design of a radio-controlled aircraft.

Practical design is required, requires and several techniques. The first is "radio-controlled launching of aircraft." This principle has already been mentioned. However, it is possible that it is not the best way of launching aircraft. We consider that it is better to use the launching device to launch the aircraft. We have now developed a launching device to launch the aircraft. The launching device has been developed by the same team as the launching device of the aircraft. This device will be able to take over a small amount of energy and convert it into motion. This is a device which is equipped with radio controls and can be controlled by the proximity of where it is located. After it has been removed from the launching device and has been coupled with the launching device, it can be placed in one of the targets through the target through the launching device."

"This," Dr. Zvezdin continued, "method is entirely new principle in launching, since in all existing methods the operator has no way of controlling the projectile once it has been released."

The RKA television pointers included in the communication also include information on the launching device. "The RKA takes no radio-controlled equipment involved in the flying trajectory, nor does it do so to estimate that this requires independent transmitter and all, could be built for much under 100 pounds."

In that communication and in a supplementary communication written to the latter part of 1935, a year and a half later, Dr. Zvezdin said how the system might be applied to more elaborate planes to use television carrying planes, which, like the flying bombs, could be independently guided and guided to remote targets by television. Such aircraft, he pointed out, had the advantage of very fastening from land points to transoceanic flights. His estimate of the total weight of such a carrier was 100 pounds and television systems for this were 100 pounds, and that included an aerial pilot.

Television equipment in 1933 was not light enough to be used in an airplane. But in 1935 RKA, on its own initiative, started the construction of airborne television equipment, which

(Left) This diagram shows how the operators of a biplane launch is controlled by television equipment. The plane, after both wings have been folded to strike pose P, holds control until a separation of a the bomb detaching in a small blow formed this pose.



IS AN RCA DEVELOPMENT

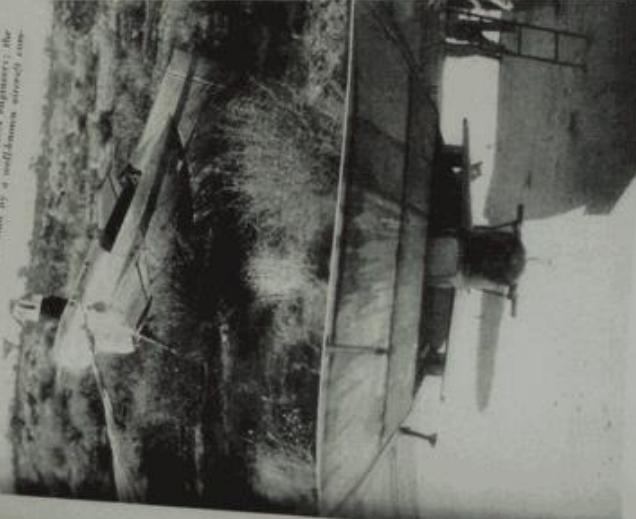
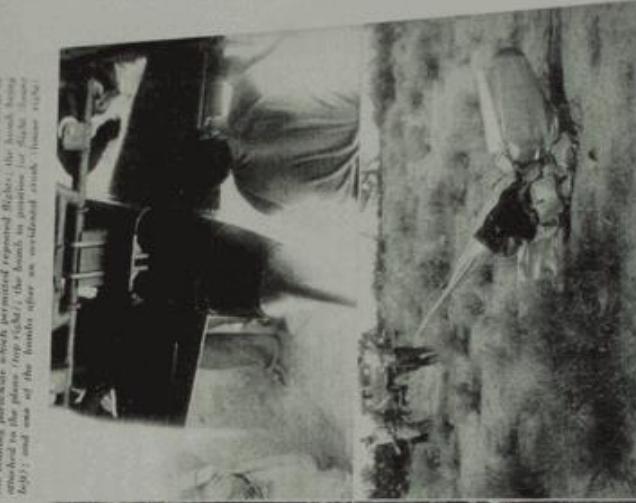
"BLOCK" and "RING" Equipments Demonstrated by

the Navy at Anacostia in March are the Culmination of Ten Years Work on Airborne Television

The windows of the lighthouse, long since demolished, had a "blocky" conserving view between the flying tower's peak. The bare trees and a road, the flying tower and the lighthouse, were all that the screen could show. The image of the target completely gone, so the side windows of the cockpit. Several hours before, a new set of wings, the "ring," had been attached to the tail of the plane, which was to be used to transport the television receiver located in the THF "block." The plane, however, had the unusual, but very valuable, feature of a tail section consisting more and more of small detail, the distance between the drone and the target diminished, thereby permitting greater accuracy of control. This image was reproduced on a screen located in the instrument panel, directly in front of the control pilot. As the target moved away from the armament station of the aircraft, it was quickly brought back by the pilot, controlling the direction of flight of the drone, instead of RON in the drone's belly and the rest.

A 1934 IDEA

At the time of this Racial mission the idea of a guided missile with a television eye was just six years old. Dr. V. K. Zworykin of RCA Laboratories first proposed this notion in 1934, when he built for RCA under an NBER contract, guided missiles on record. These early models were directed entirely by R/C engineers; the television eye, built under their direction by RCA, engineers, already showed promise of being able to provide for direct guidance of the missiles after an initial start. However, the



The pictures below show the missile itself (top left), with much of the launching mechanism which permitted Racial to fire the drone from the plane (top right), the launch in position for take-off (bottom left); and one of the funds after an undivided attack (bottom right).

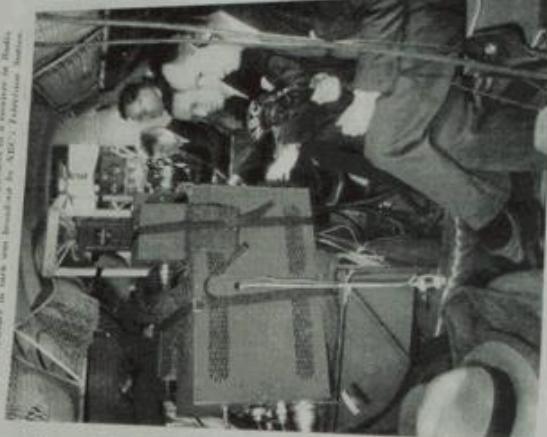
AIRBORNE TELEVISION!

by HENRY E. RHEA, Manager
Television Transmitter Equipment Sales
Engineering Products Department

A very TDF Airborne television system, operating on a television band, was mounted in the small Pacific. In the other cabin, his home, was mounted in front of a special television camera which had been built with a combination of standard television equipment and some specially designed electronic components which had been built by himself. He also had a large, hand-built television receiver which was especially constructed for the particular requirements of the system. During the time when the experiments were being conducted, the aircraft was in a small vertical wind tunnel, so there was no opportunity for television reception except at low altitude. The antenna is the same as the one used in the ground station, although it is much larger and longer. From time to time, as the aircraft flies over the ocean, the camera is triggered to film the sky. Being a high-speed camera, it can't be stopped once it starts, so it has to run continuously. This creates a continuous stream of pictures recorded on a film strip. Then, as the aircraft passes through a cloud or a rain shower, the camera continues to record the scene.

In TDF the sky television system, developed by the RAE, is mounted in the RAE's aircraft. The system consists of a television camera, a television receiver, and a television transmitter. The television camera is mounted in the RAE's aircraft, and the television receiver is mounted in the RAE's aircraft. The television transmitter is mounted in the RAE's aircraft, and the television receiver is mounted in the RAE's aircraft.

In TDF the sky television system, developed by the RAE, is mounted in the RAE's aircraft, and the television receiver is mounted in the RAE's aircraft.



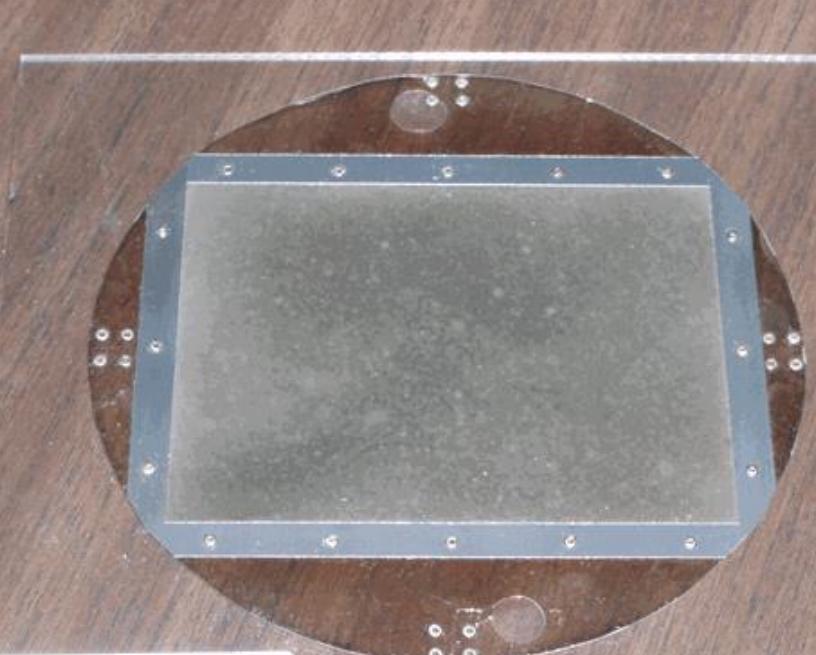
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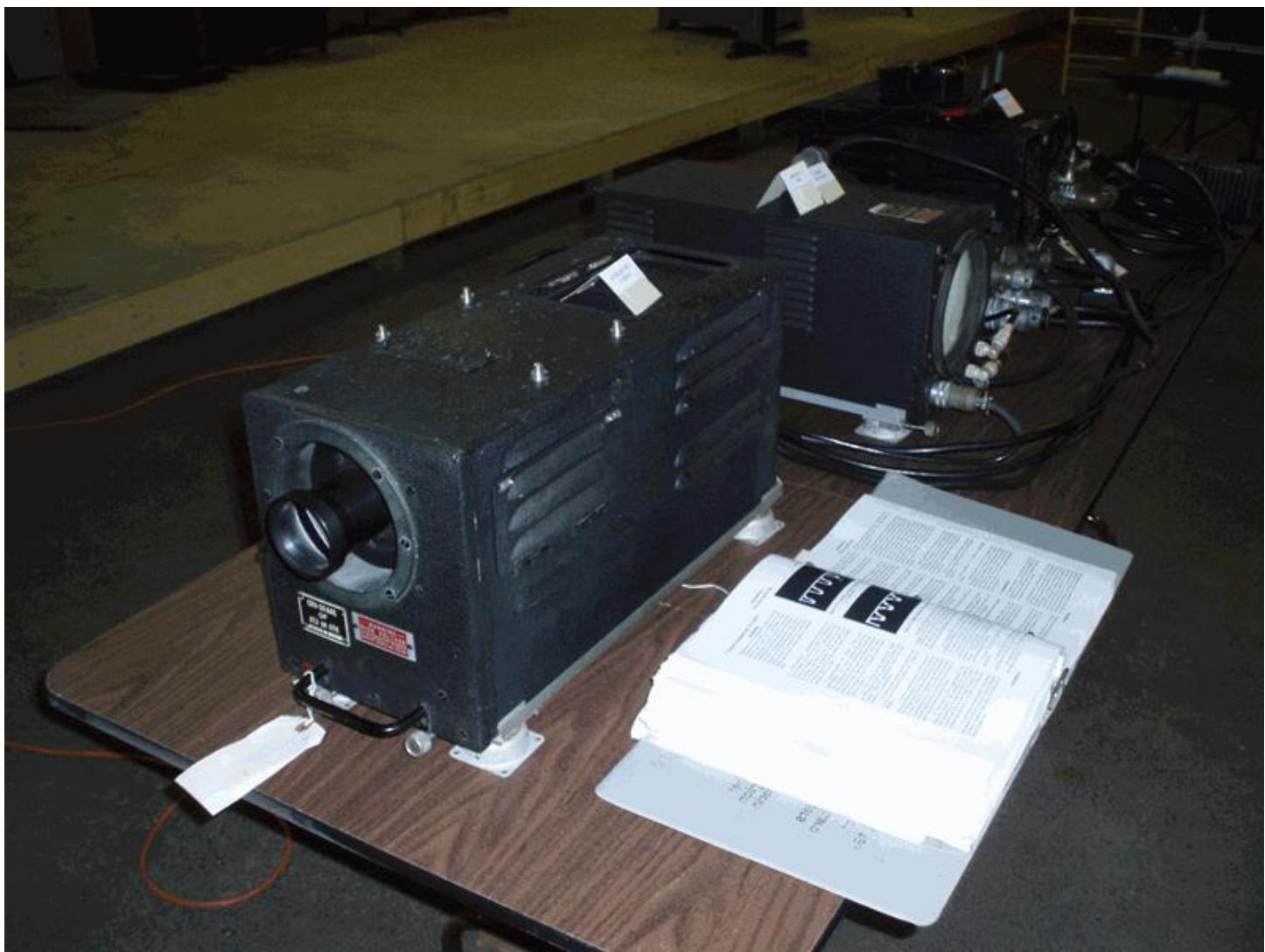


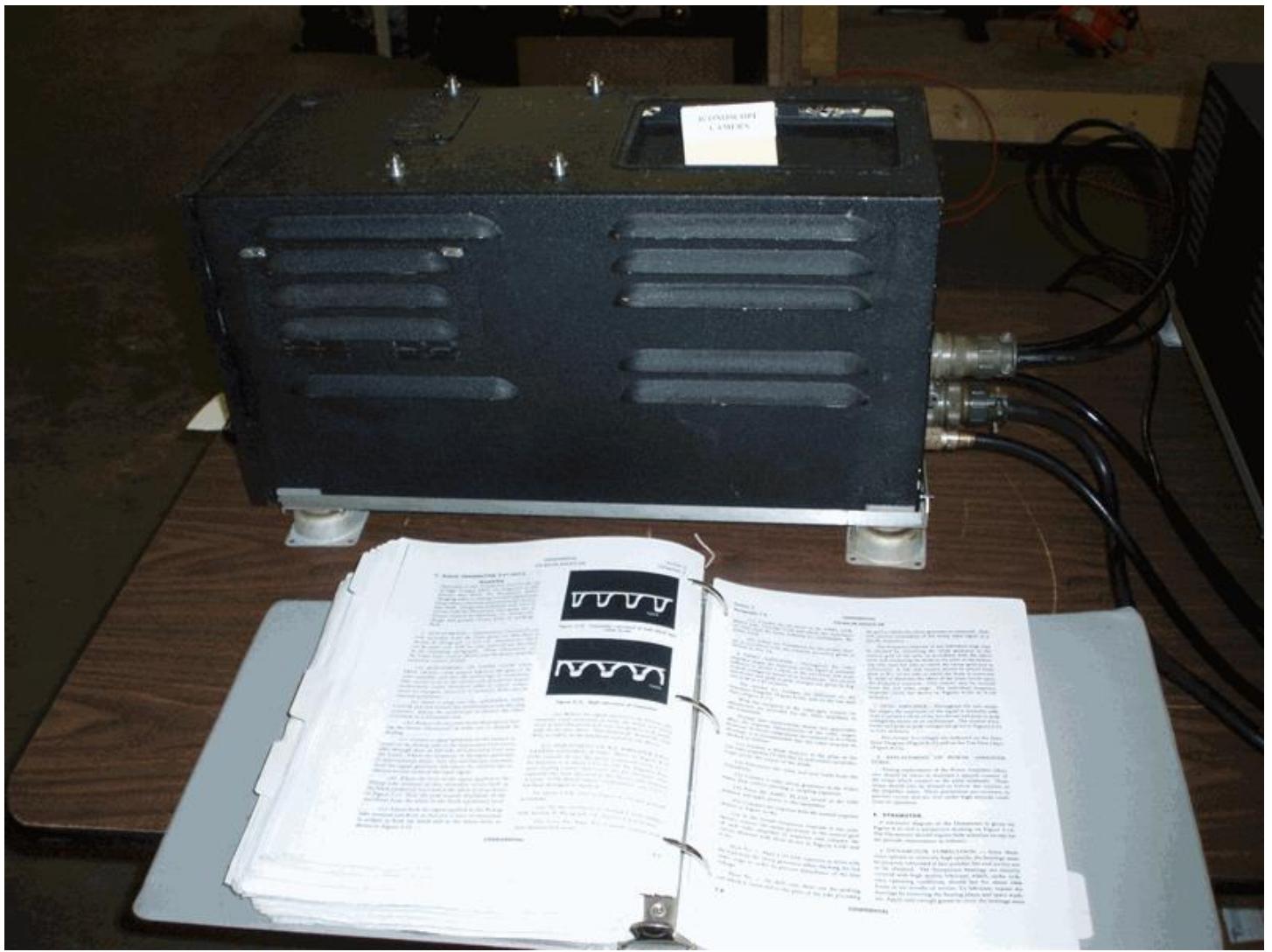
ICONOSCOPE
MOSAIC



STEREOLINK
S-01

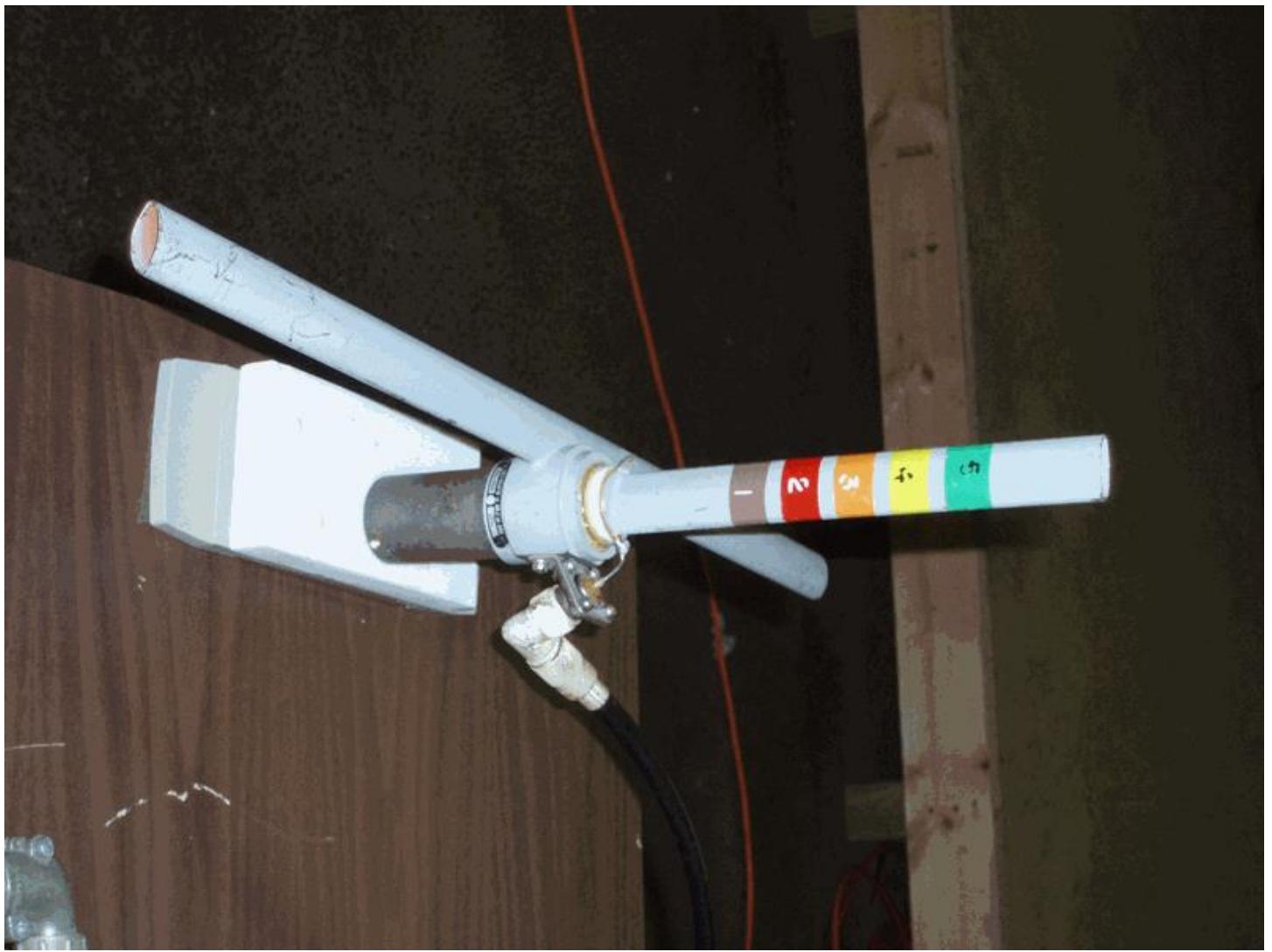














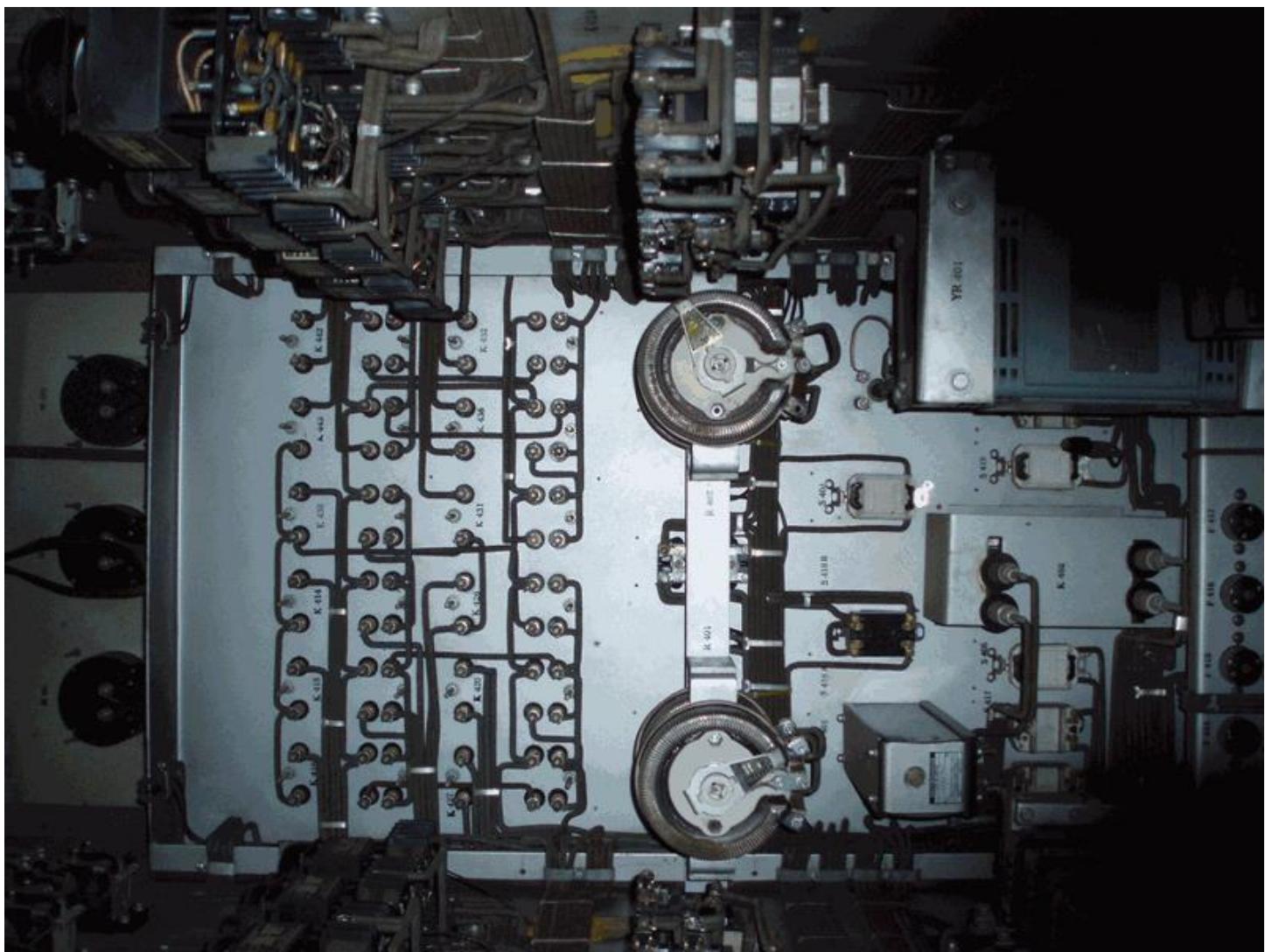


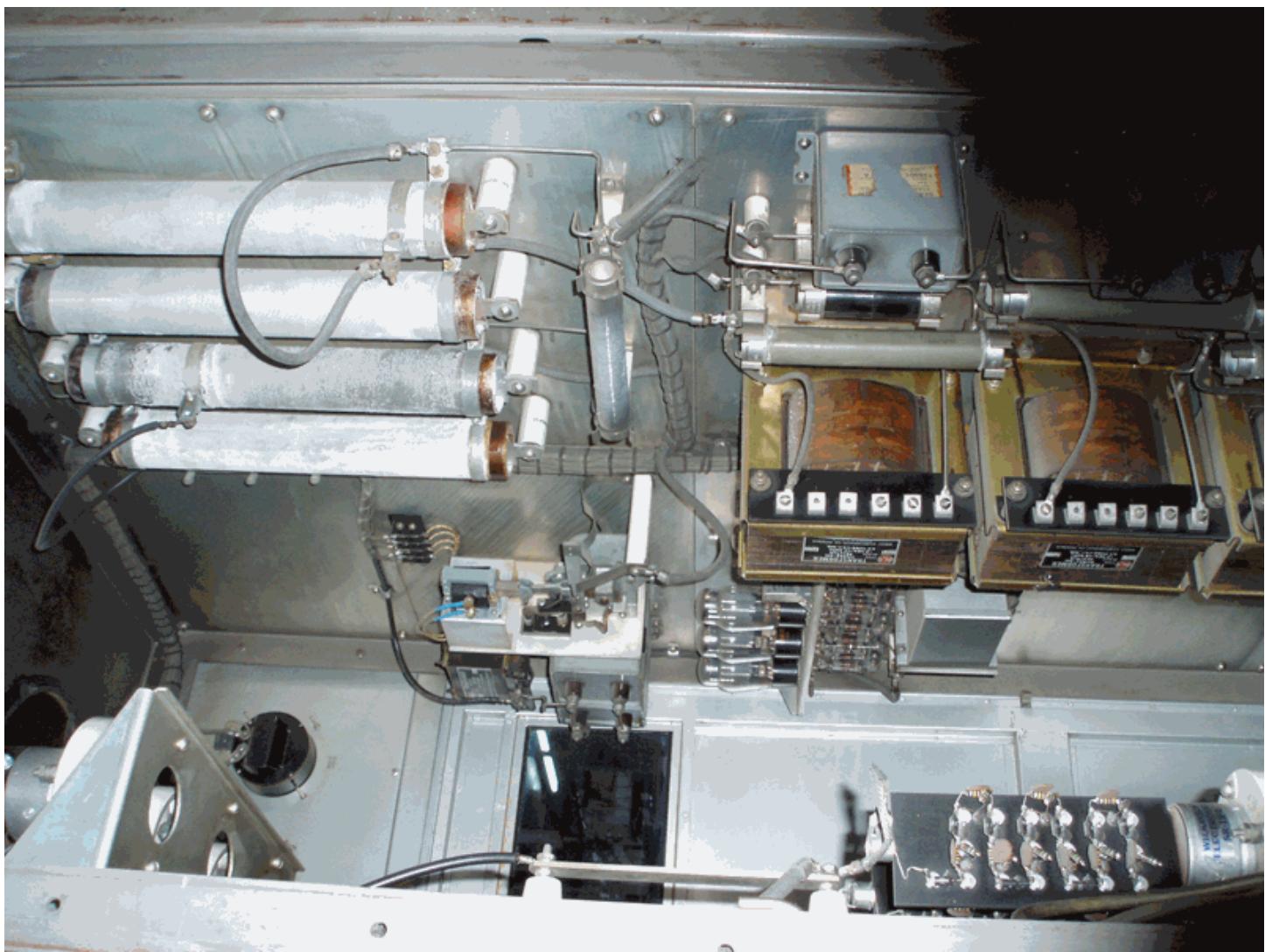
RCA TK-20
Iconoscope
Film Camera

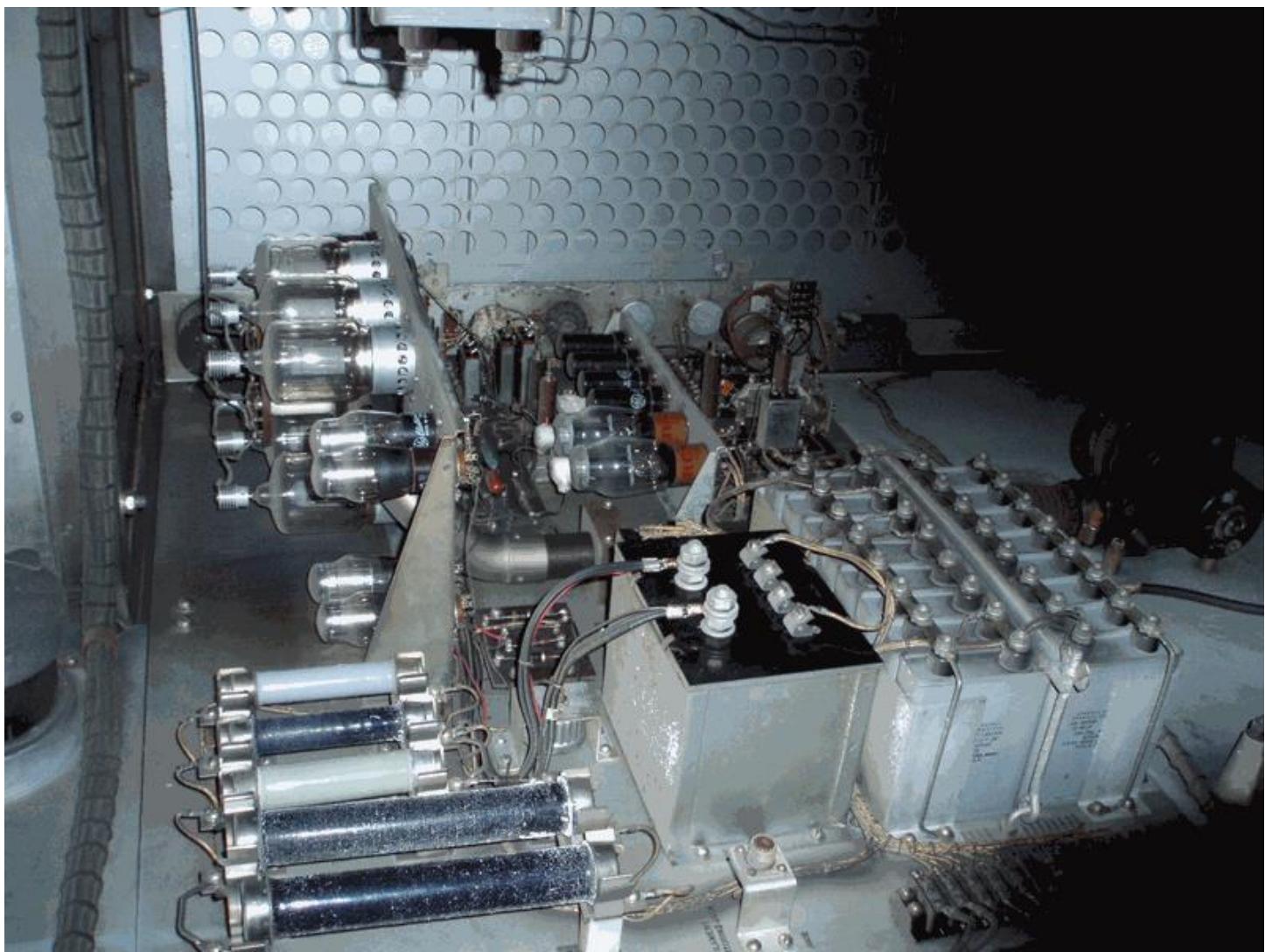
RCA TK-20
Iconoscope
Film Camera

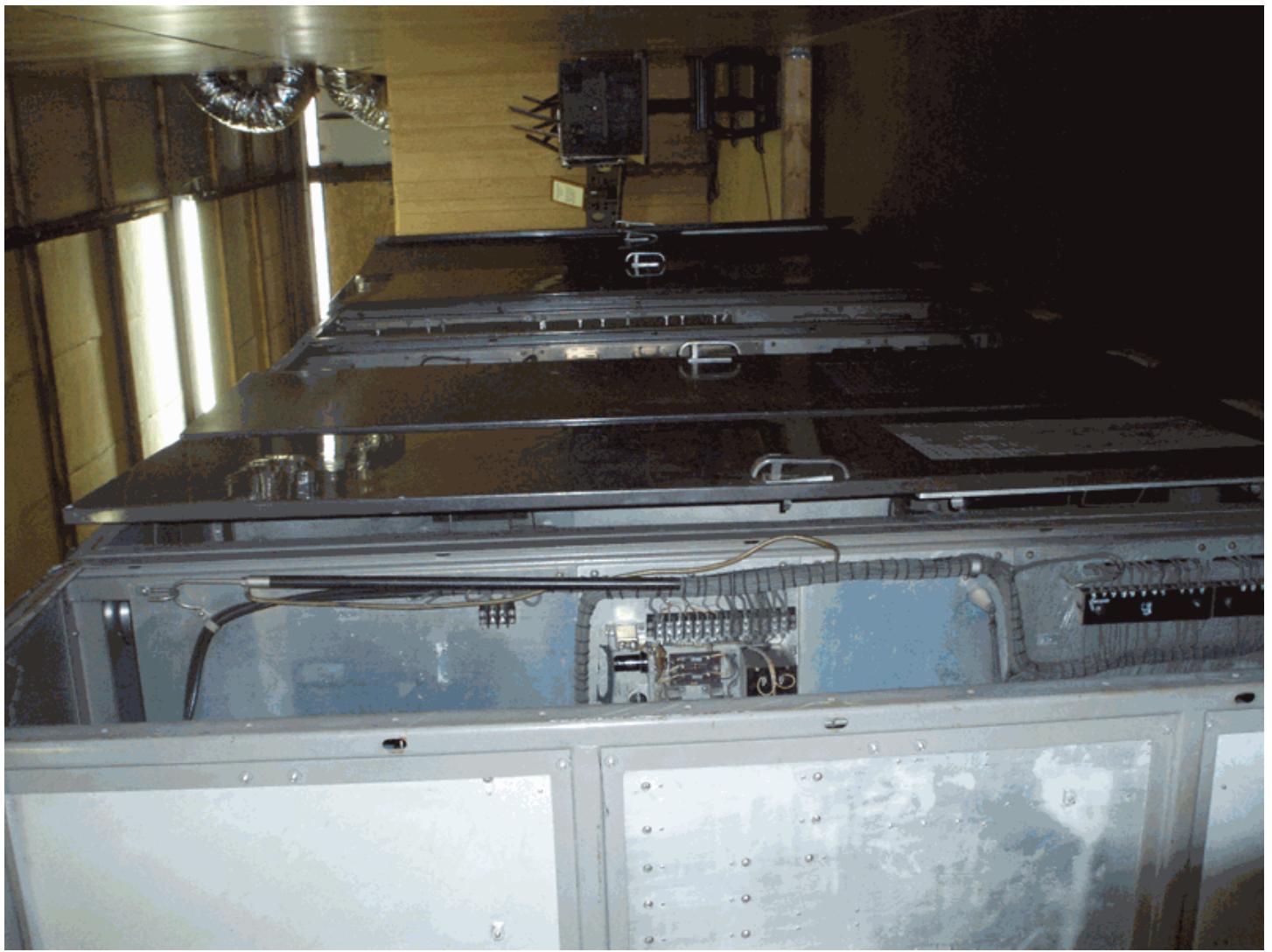
This was RCA's first film photo camera, introduced right after World War II with the 1948 patent. It had a built-in iconoscope tube which converted light into the first film cameras to produce television-like images.

General Electric
PC-2 Film and
Slide Camera











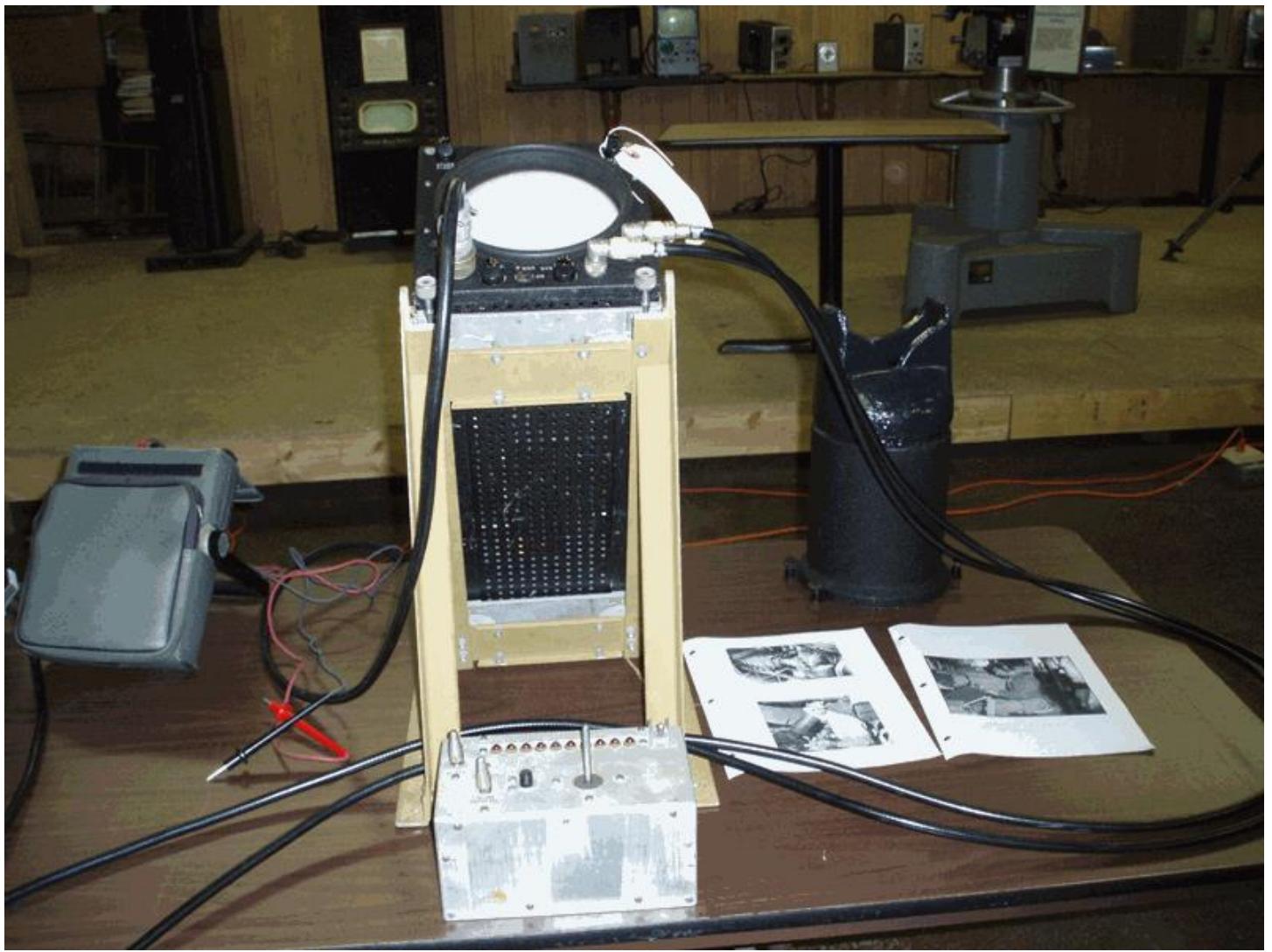


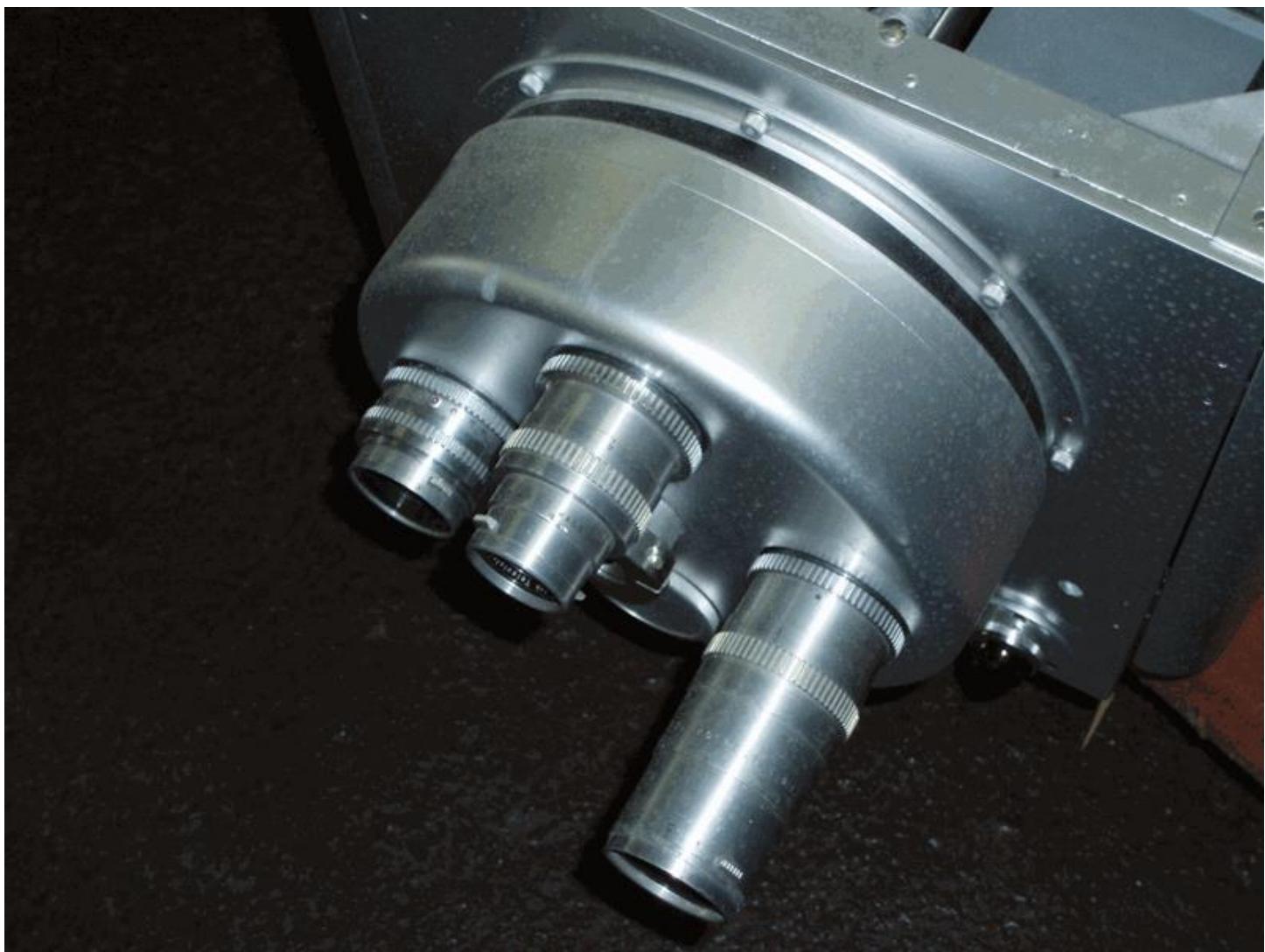


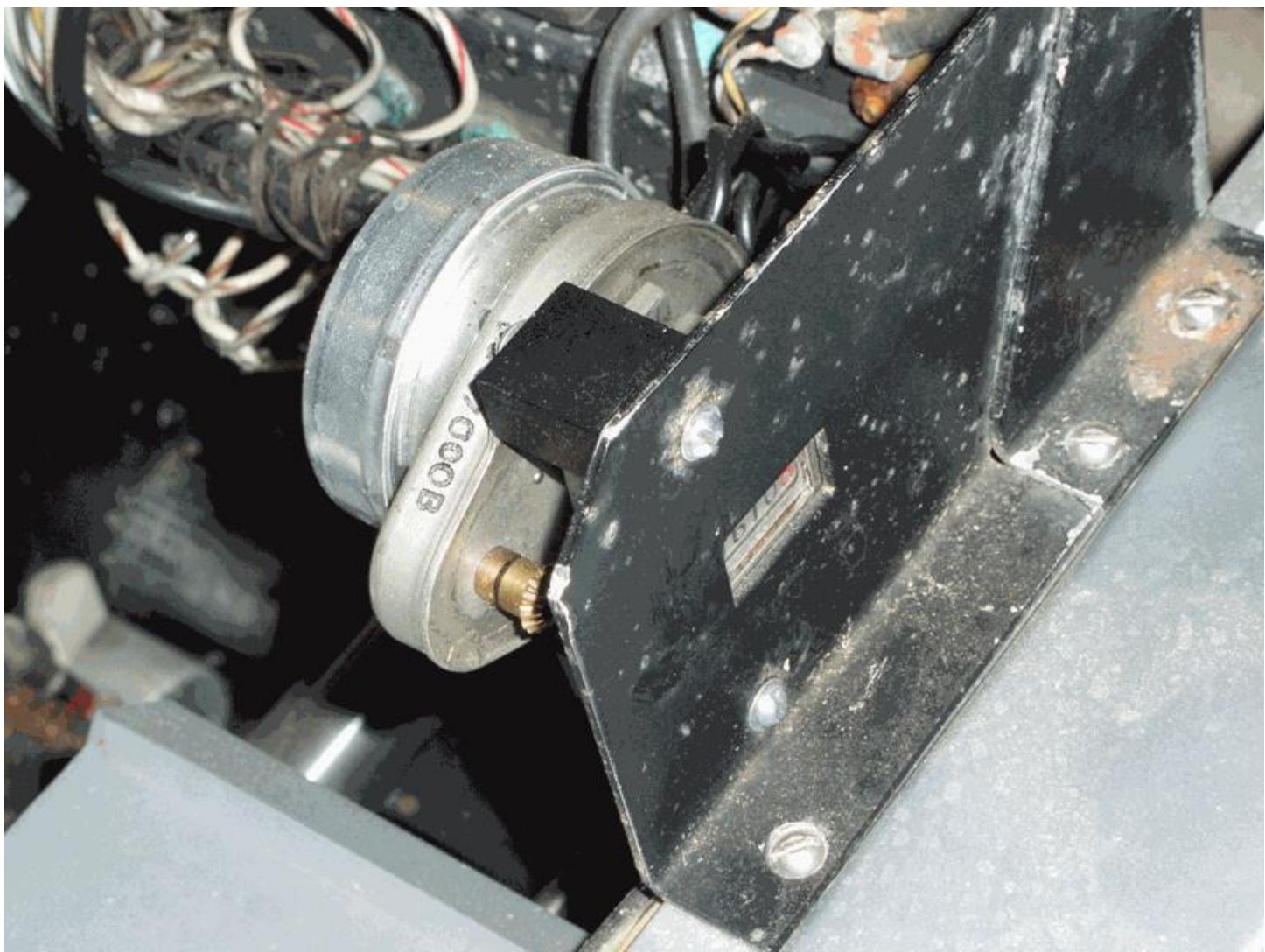


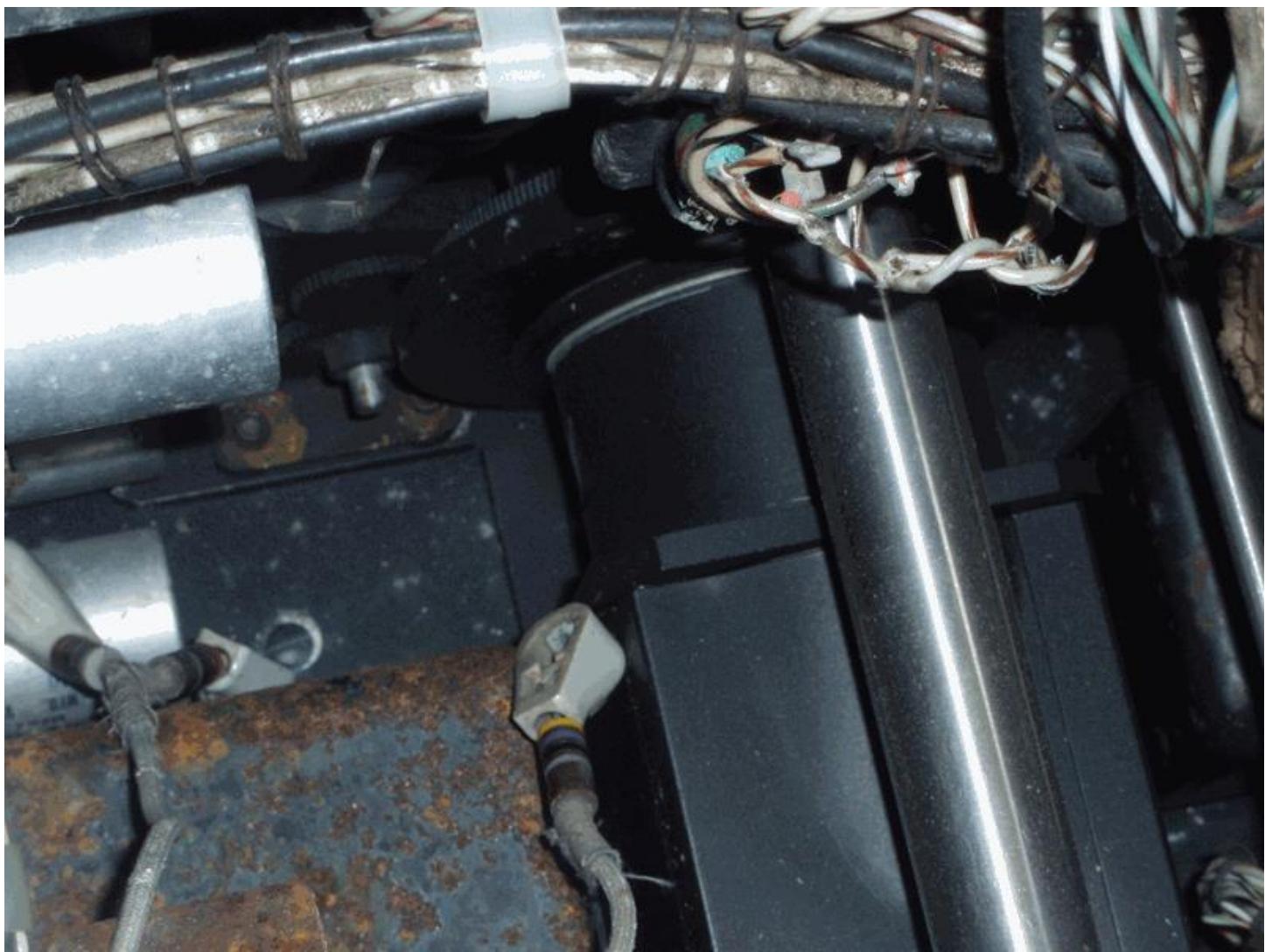








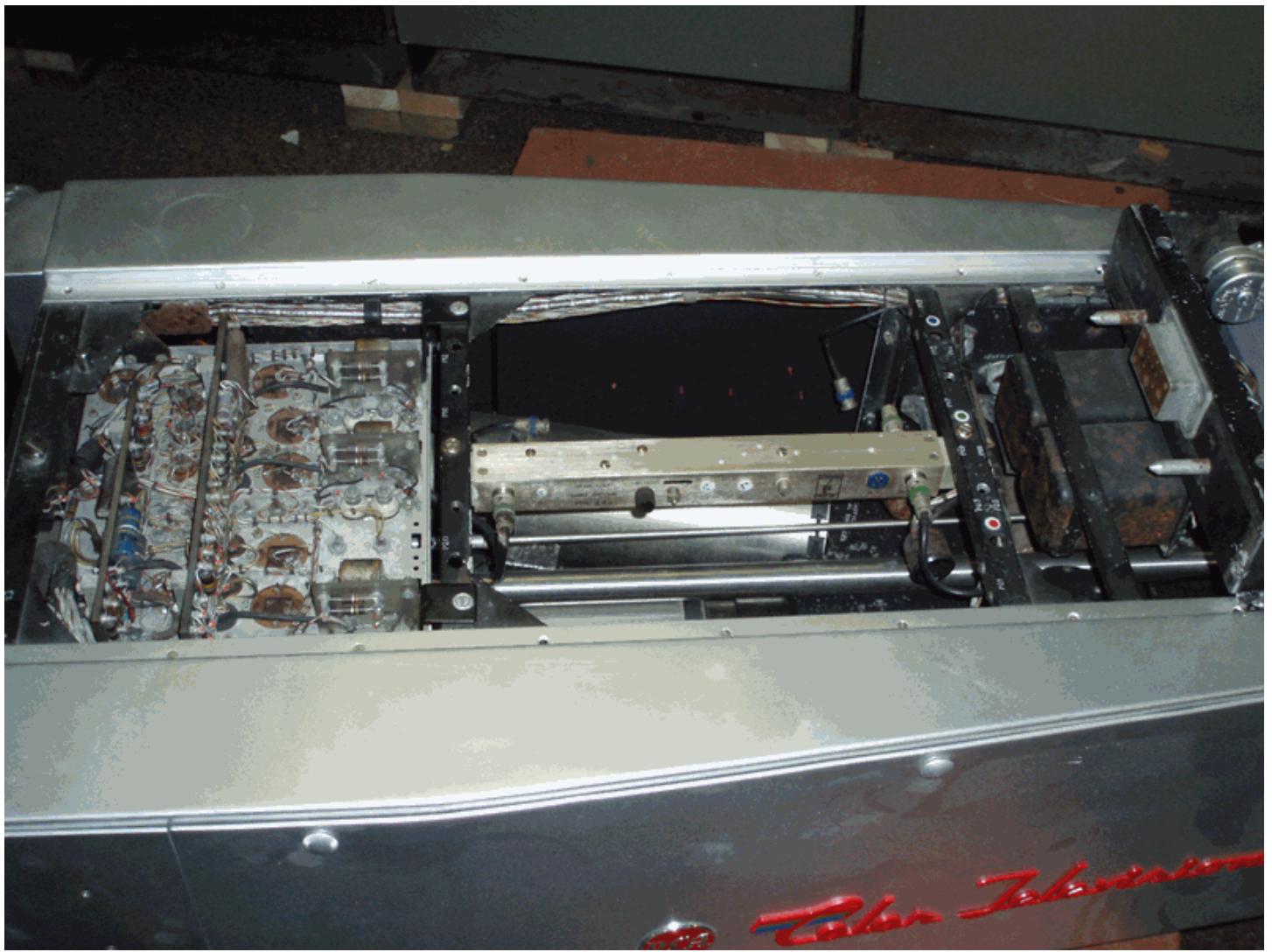






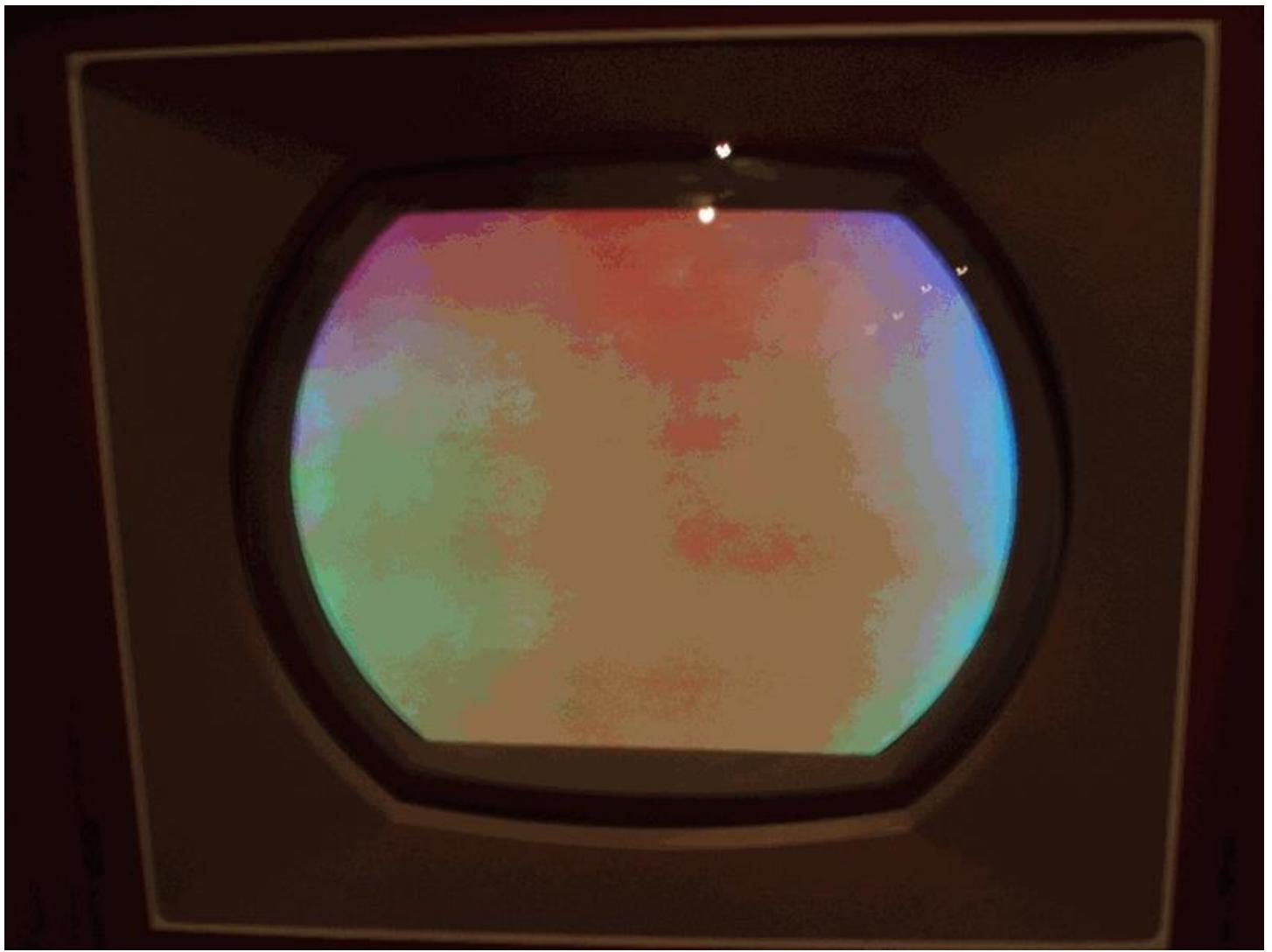


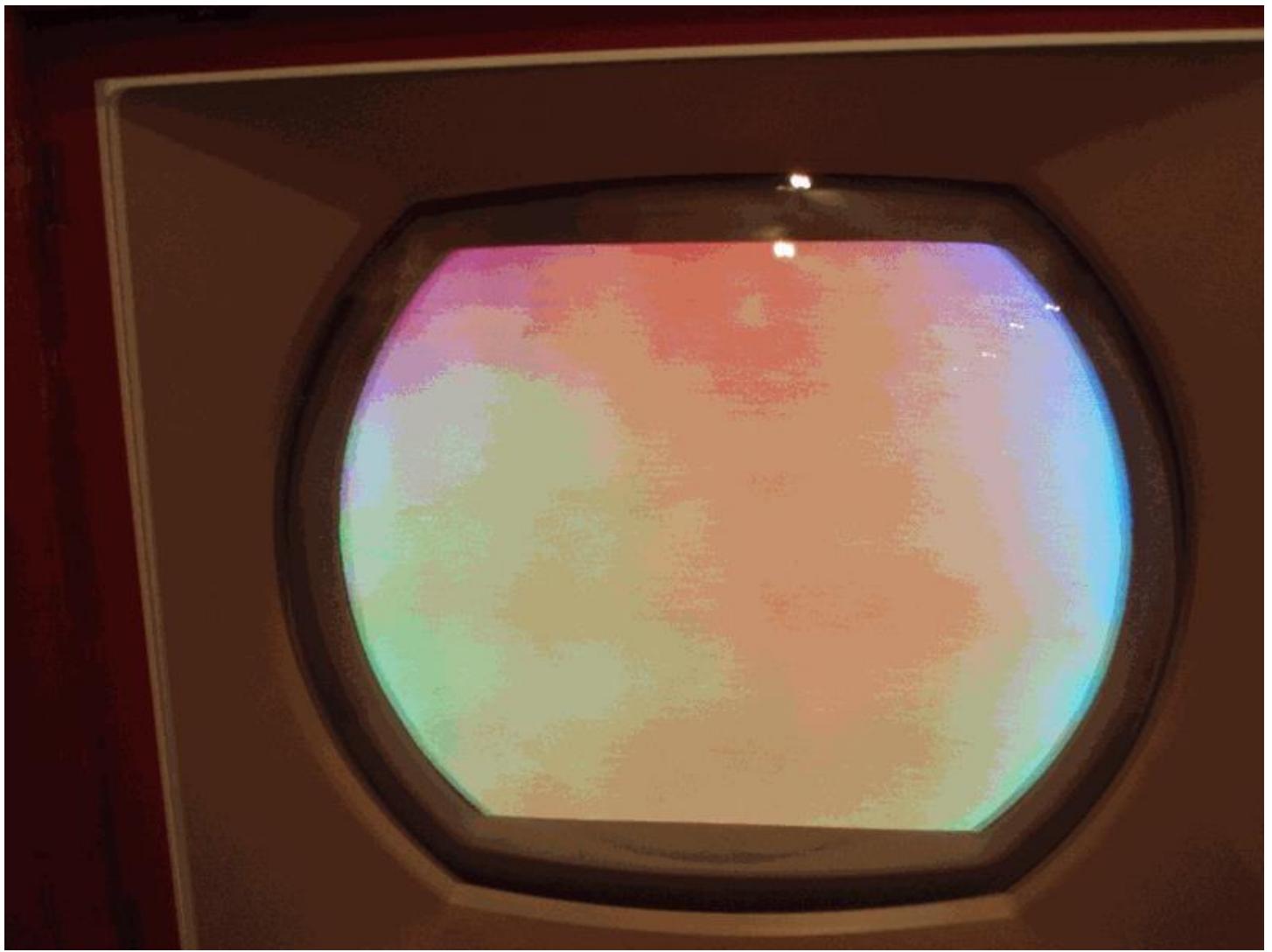


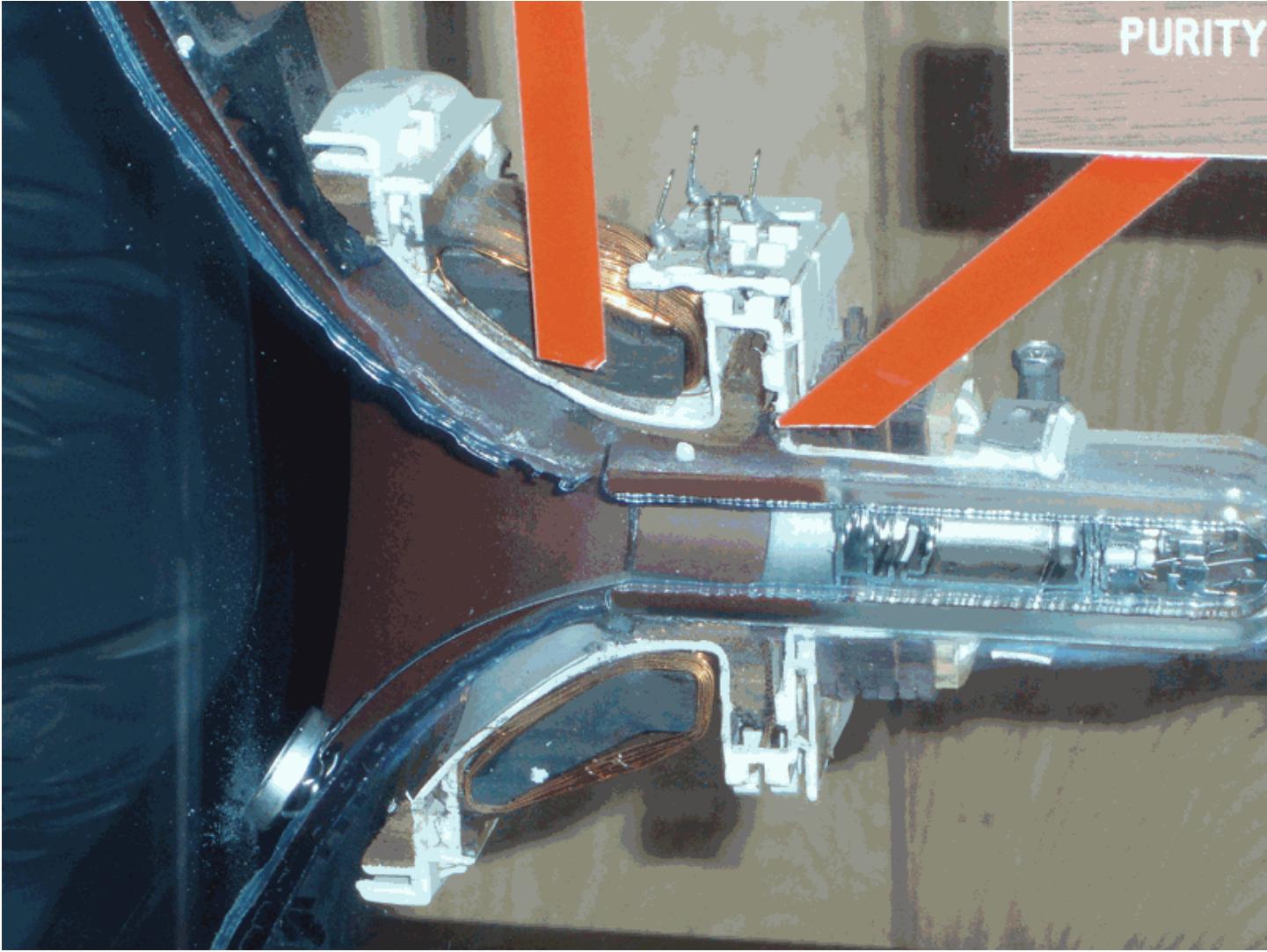






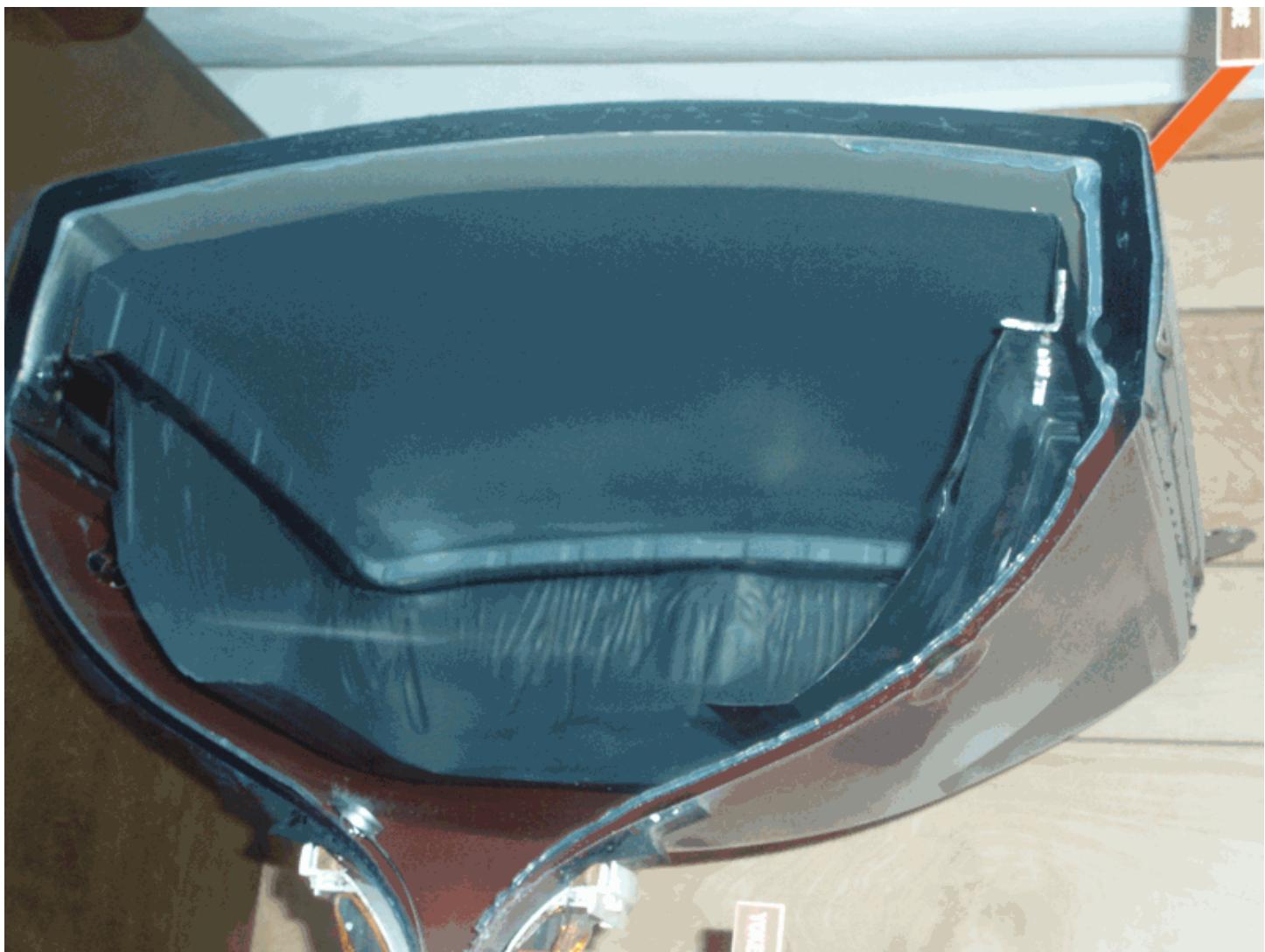


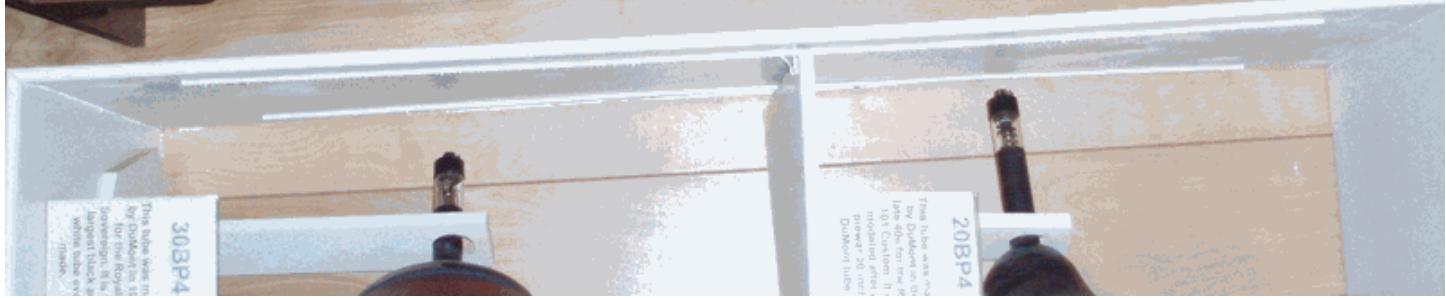




PURITY









30BP4

This tube was made
by DuMont in 1951
for the Royal
Sovereign. It is the
largest black and
white tube ever
made.

1936 German
CRT

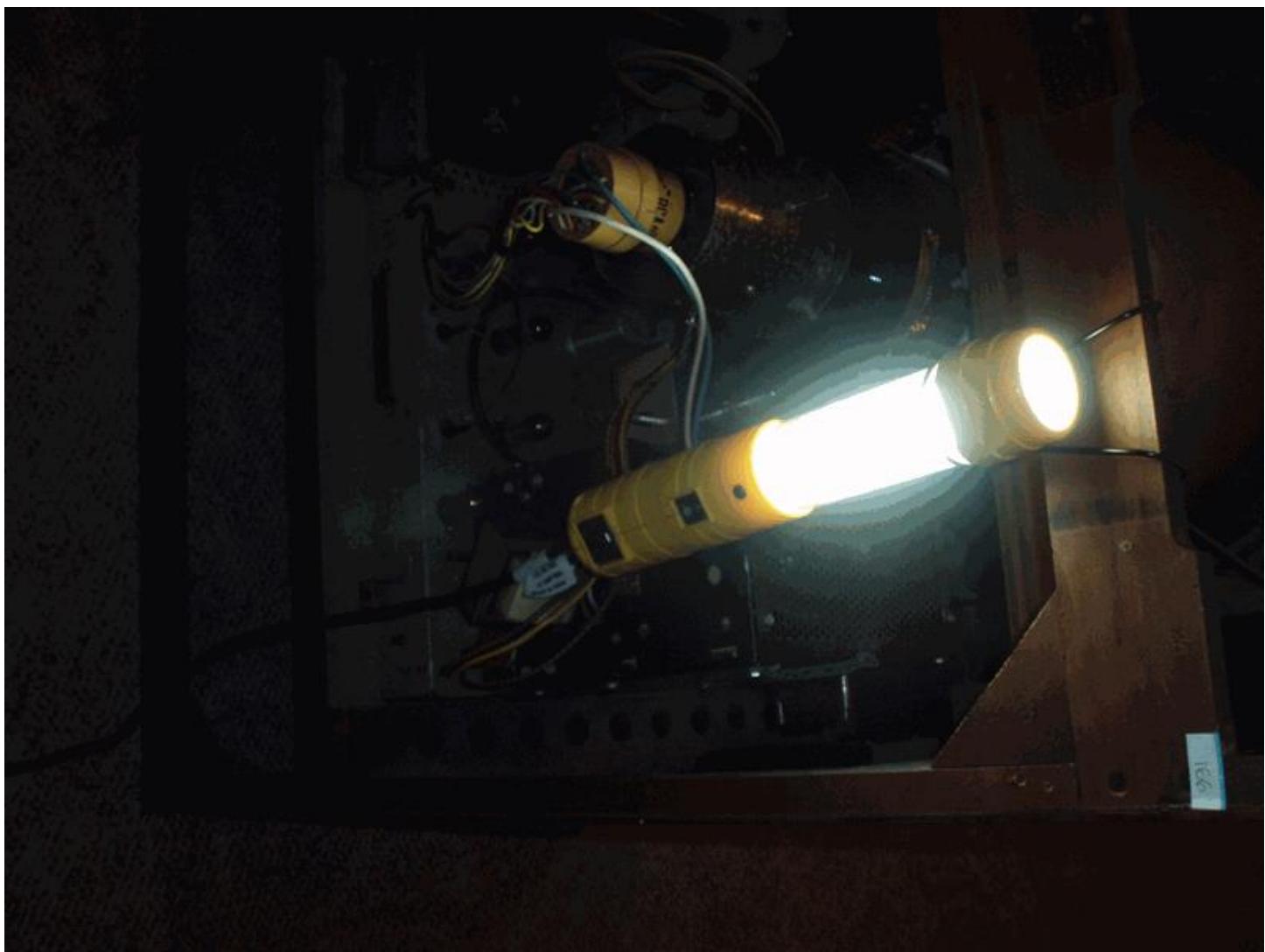
Made in 1936 for viewing by
the Nazi's, this CRT was used
in Berlin during the 1936
Olympics. TV sets were put
in public places in Berlin.

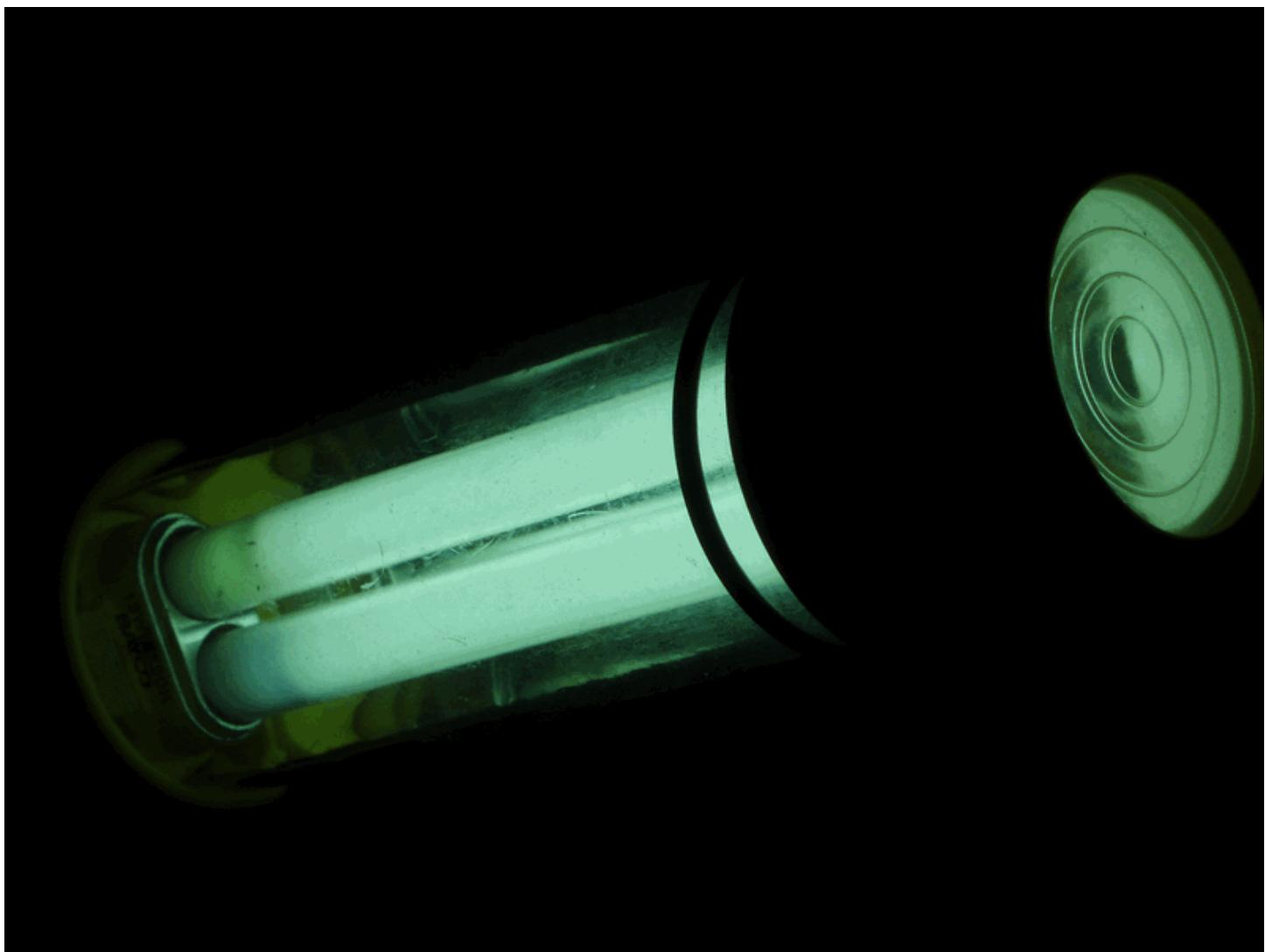
This tube was made by
Farnsworth in 1936 showing
that it includes in the history
company in the 30's

CBS Colors
266

This is the first television
camera ever made. It was
used in a set made
with the technology
of the 30's.



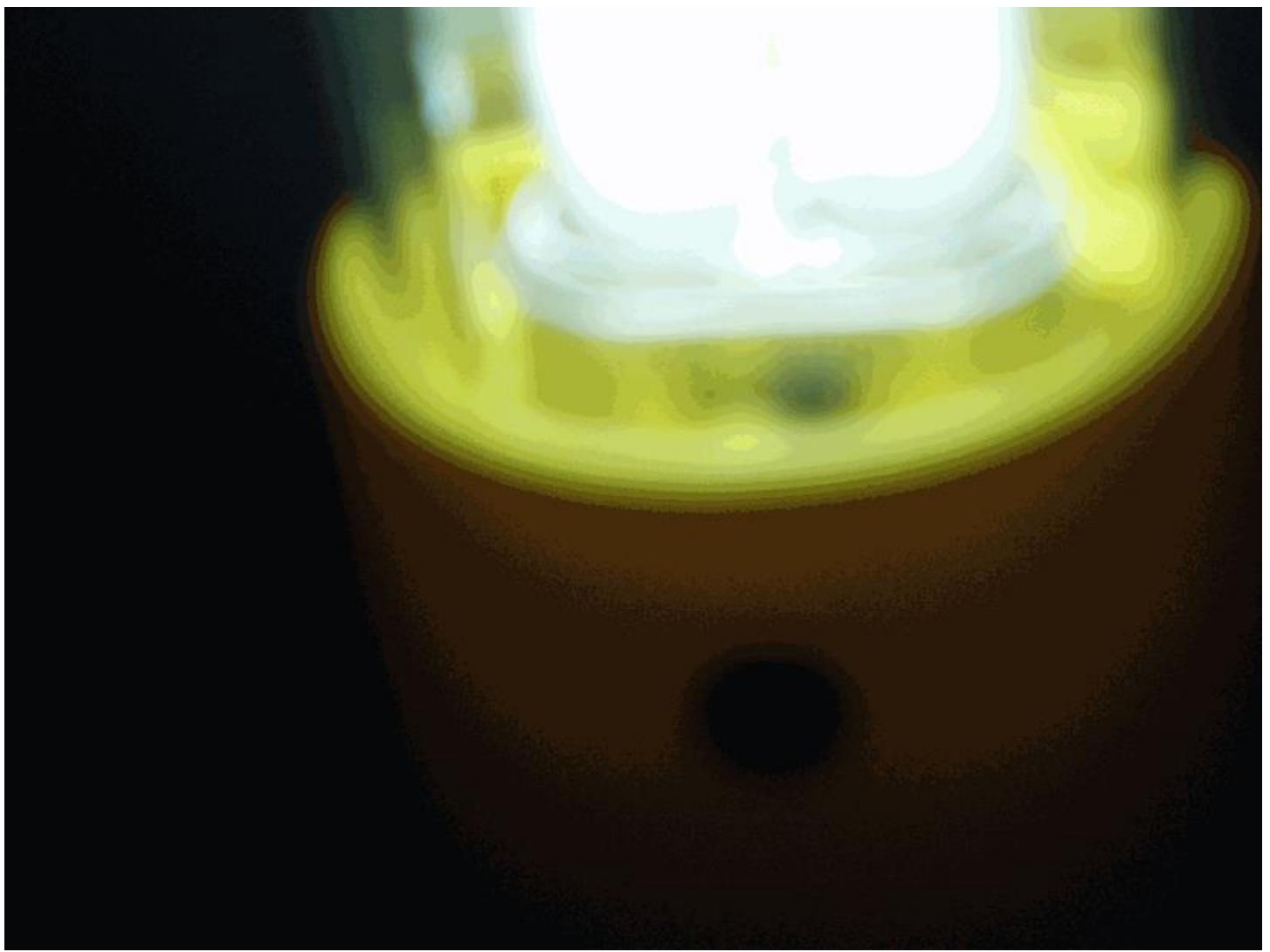


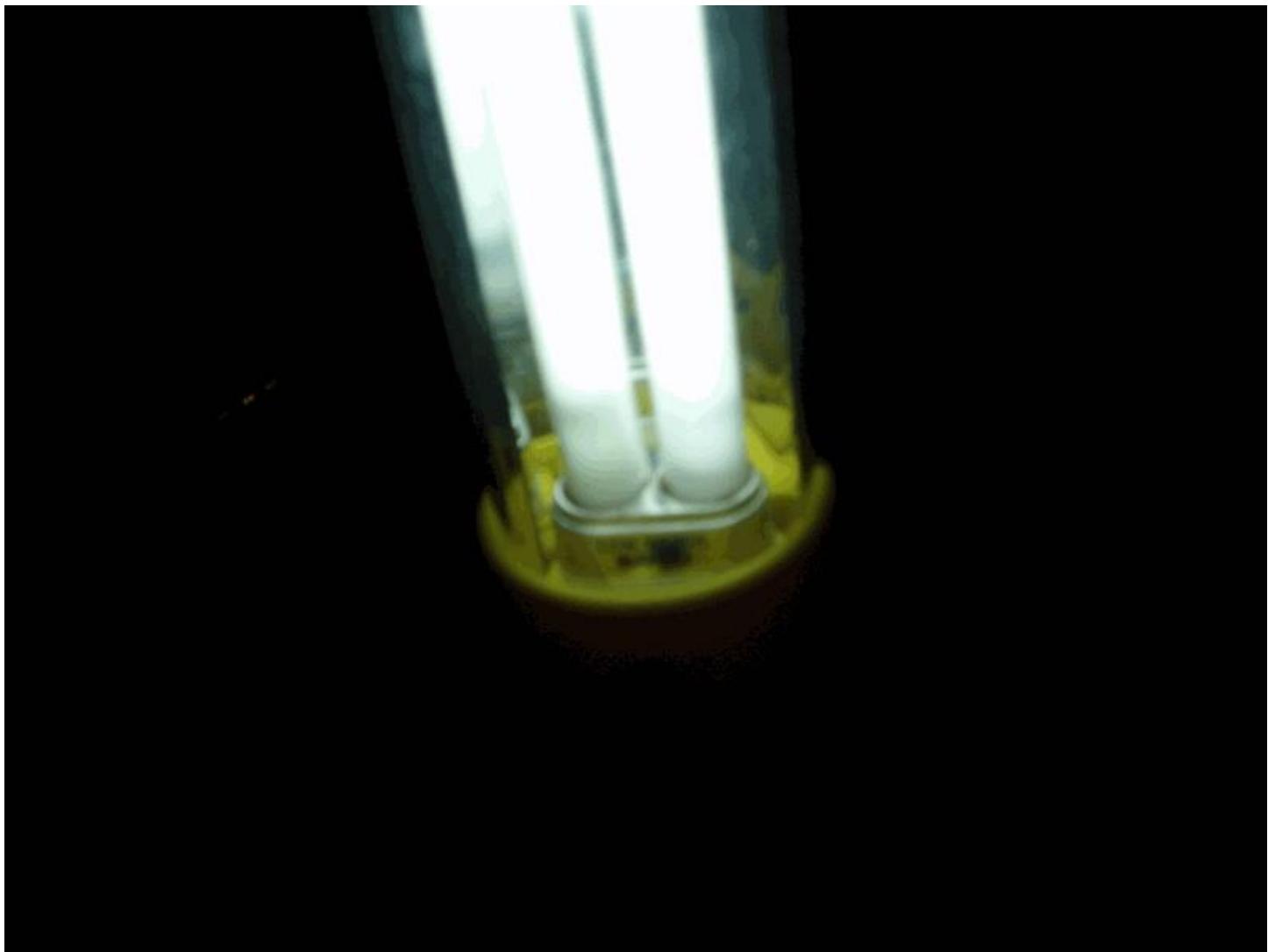


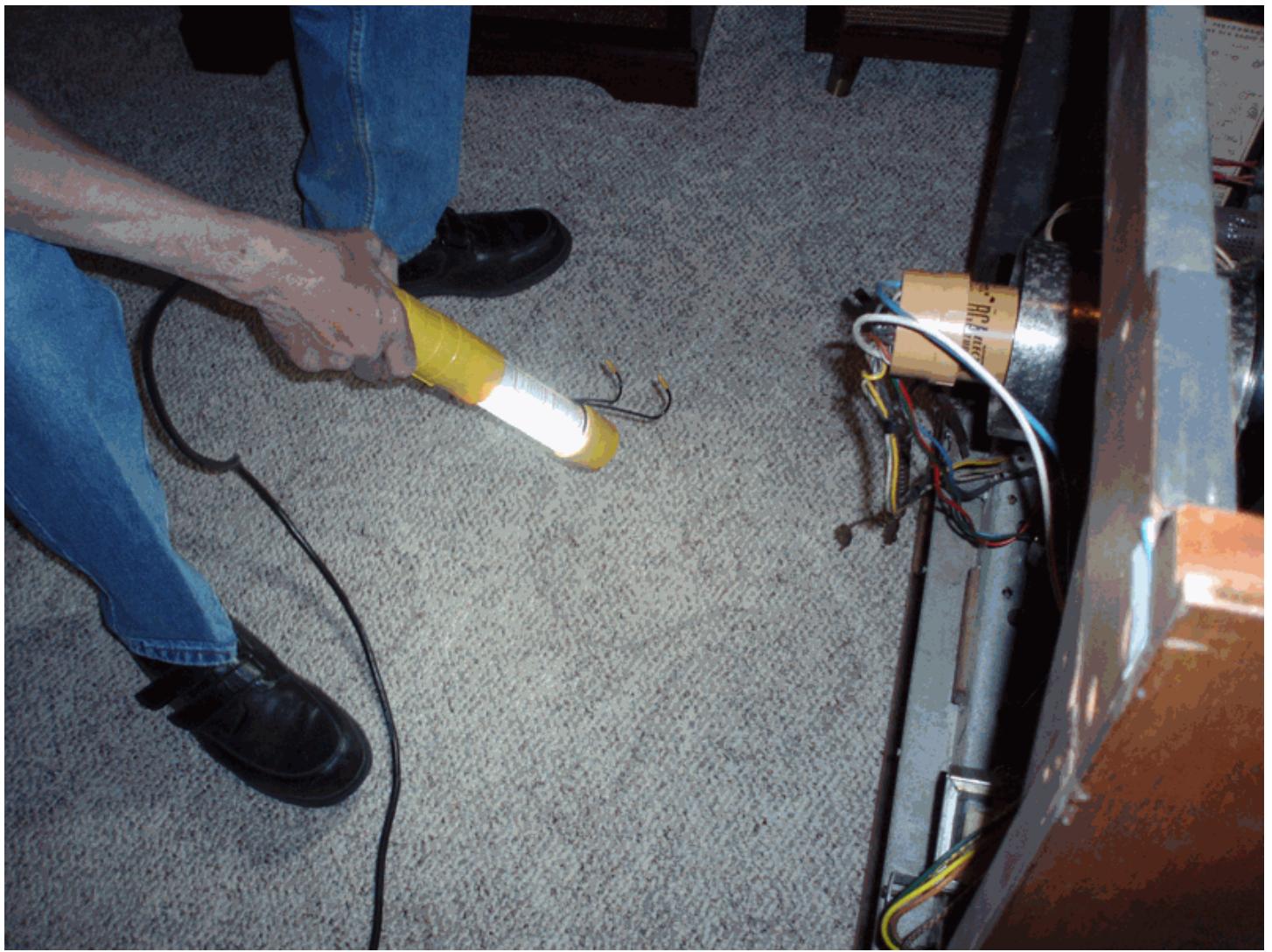


A close-up photograph of the base of a Bayco LED light bulb. The base is silver and features three distinct notches. The text "13W 6500K" is printed above the notches, and "BAYCO" is printed below it in a bold, sans-serif font.

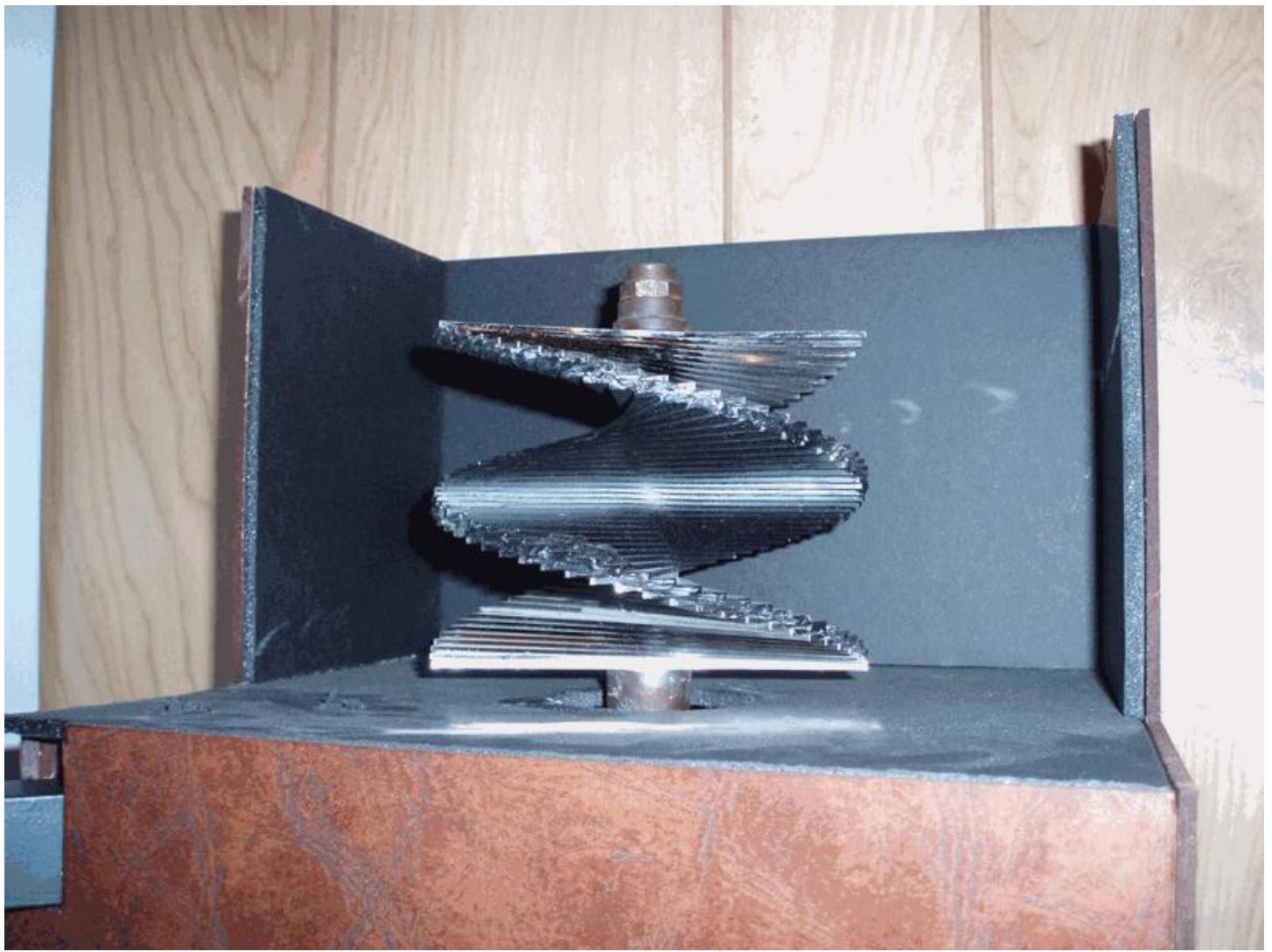
13W 6500K
BAYCO















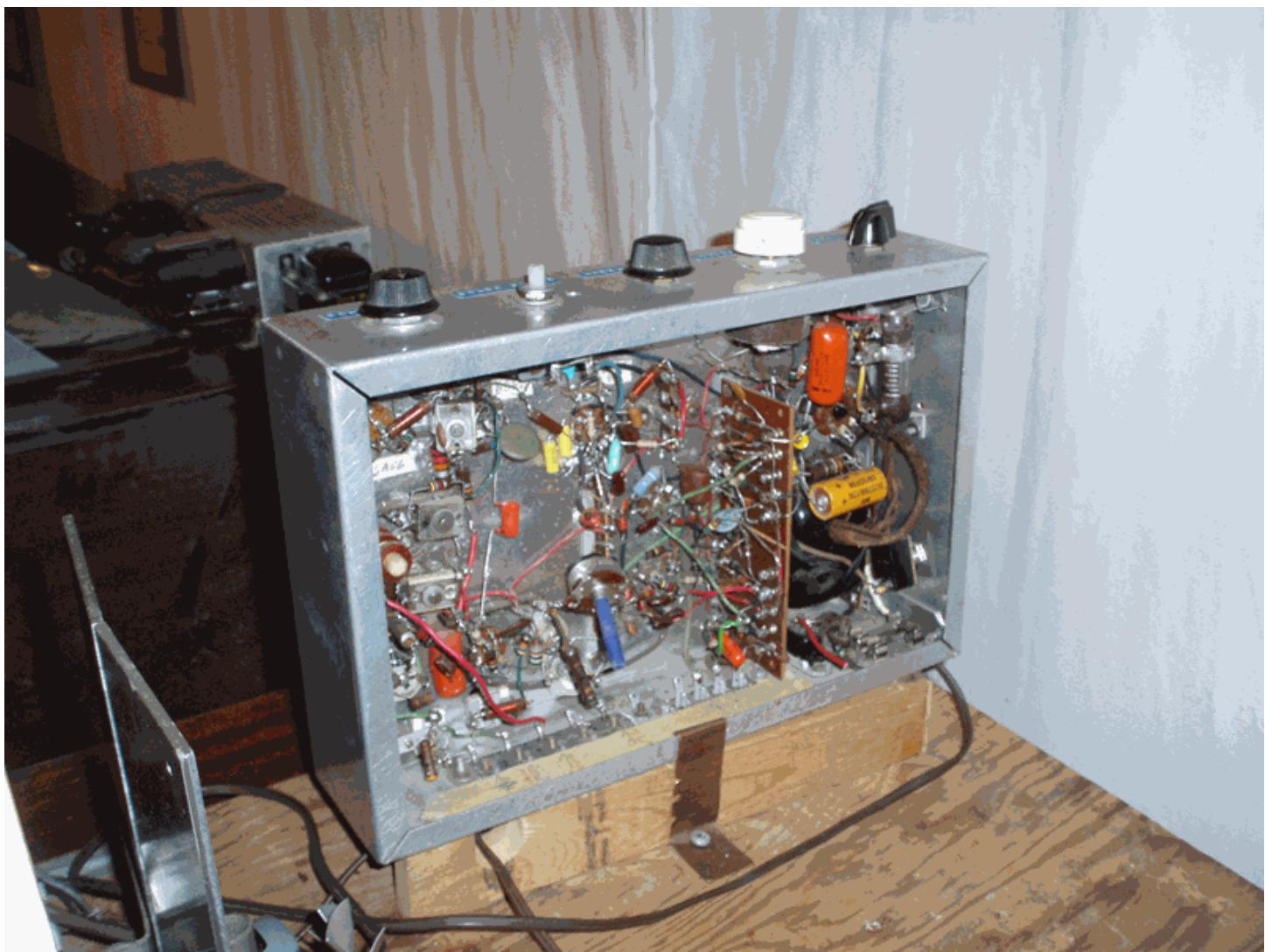
Color TV in 1932?

This TV set uses a mirror screw we acquired from a former Bell Labs engineer. It was originally used in their early television experiments. In 1932 it produced a black and white picture, but we have made it display color pictures.

John Logie Baird produced the first color television images in 1928, using a Nipkow disk.











Color Convertibles
This December, for Black and White
and the millions of F/B Color Televisions.

CBS-Columbia
Color Television
Black & White

CBS-Columbia
COMPATIBLE RECEIVERS
INTERFACES COLOR TELEVISIONS TO BLACK AND WHITE WITH THE RISK OF A FINGER!

LIBERTY Music Stores

CBS-Columbia
Color Television
in
Liberty Music Shops
New York and White Plains

CBS-Columbia
Color Television
in
Liberty Music Shops
New York and White Plains

New! DAVEGA
ST. INDEPENDENT TELEVISION HOUSE

New!
Admiral
20" Television
built for the Future!

DAVEGA TV TRADE-IN. SALE

Four Color Bulletin
No. CASH COWS

Color TV

COLOR TV SHELFED AS A DEFENSE STEP

William Balla C.R.S. to Halt Set
Effort to Save Materials
and Network-Airline

**Color-Video Is Shelved Indefinitely
To Conserve Materials for Defense**

Color-TV

Color-TV

ARTICLES & ADS COURTESY
STEVE DICHTER
HOLLYWOOD, CA.

COLOR TV IS HERE
Start of Regular Commercial Schedule
To Be Broadcast With Special Show



CBS Field Sequential
Color Television
1951

Now Available! CBS-Columbia Glorious Color Television
FIRST TIME at DAVEGA
Full Color Television

CBS-Columbia
Color Television Receivers
Use The Only Approved Color System



Special Trade-in Offer!



Enjoy The Thrills & Excitement of
FOOTBALL IN FULL COLOR

9
MAJOR COLLEGE GAMES
TELECAST IN FULL COLOR
Great Spectacle for a Spectacular Month
FIRST GAME-TIMBERRON
Saturday, September 10th
PENNSYLVANIA
vs
CALIFORNIA
from Philadelphia

*Not "Next Year"-Not "Tomorrow"-But TODAY!
All You Do Is Flick A Switch To Enjoy...
PROGRAMS IN FULL COLOR... & ALL REGULAR BLACK & WHITE PROGRAMS

COLOR IS "IN THE AIR" - COLOR IS ON THE AIR - AND DAVEGA WANTS YOU TO ENJOY IT NOW! Our new CBS-Columbia Full Color Receivers are now available in the DAVEGA store to take the place of home in your living room. Full color television is the most exciting development in television since the invention of television itself. It matches the rhythm and tempo of the nation. Shining "GAMBLER" the warmth and brightness of Jack will be captured in no other way. And the colors will be so true and brilliant that you will be able to distinguish between players by the color of their uniforms. You ... see? "The World's First Full Color Television Receiver" is here to stay. And it's here to stay for good. It's here to stay for ever... The movies ... musical shows ... radio programs ... something to interest everyone. Of course, you can also enjoy all the regular black and white programs. And you can also enjoy the great football games that start And you'll be proud of the distinctive styling and smart appearance of the full-line complete models in hand-polished mahogany veneer. See the TV sets of one of the DAVEGA stores today and you'll be sure to order your immediately! See DAVEGA's finest sets, today at DAVEGA.

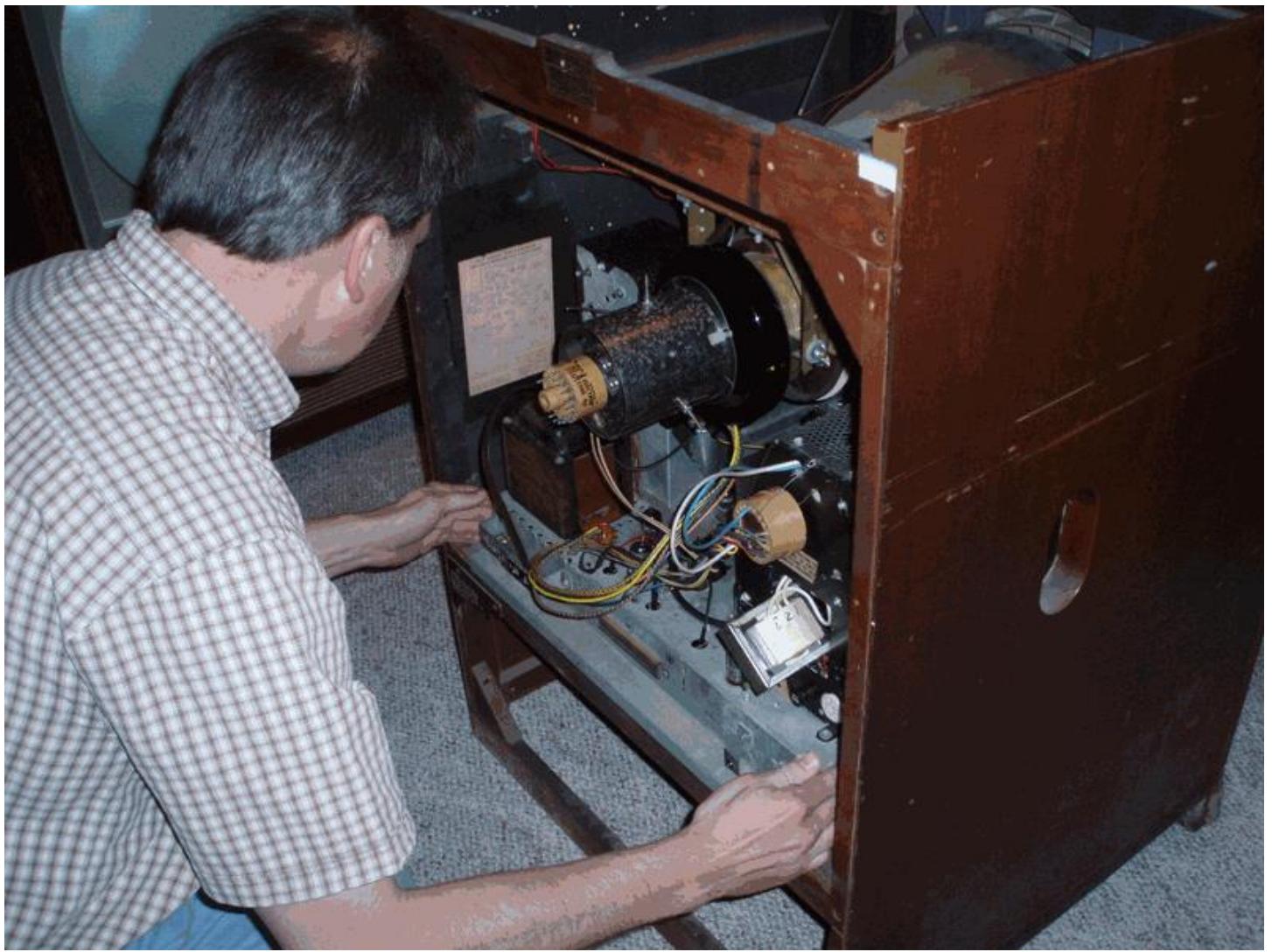
Davega Will Give A Big Allowance For Your Trade-In TV, Radio, or Phone... The Value Of Your Trade-In May Mean
NO CASH DOWN ★ 78 WEEKS TO PAY

FOR FURTHER INFORMATION - CALL WA 4-4848

DAVEGA

★ DOWNTOWN ... 12 CORLIANT ST.
★ HOTEL COMMODORE ... 111 E. 42nd ST.
★ TIMES SQUARE ... 132 W. 42nd ST.
★ BROOKLYN ... 360 FULTON ST.
★ QUEENS ... 193-24 JAMAICA AVE.





**1880
Scheimpflug**

The 1880 was the original camera tube used during World War I. These tubes require a large amount of light.

**1890
Iconoscope**

The 1890 were made during World War I for air warfare. This camera used a vacuum tube in a vacuum instead of glass.

**5220 Image
Orthicon**

The Image Orthicon camera tube was used in cameras from 1942 through the mid 50s. It was more sensitive than the iconoscope.



**Image
Dissectors**

The image dissector was invented by Philo Farnsworth in the late 20s, and was the first successful camera tube. The tube requires too much light to be practical in most applications. The one on the left was made in the late 40s and used to inspect steam pipes in power plants. The one on the right was made in the early 50s.

**ATI
Monoscope**

Monoscope tube made by the American Television Institute students (late 30s - early 40s). Usually there is a pattern of some sort on the target (right). This tube has a slotted disc.













Coloradaptor

This set converted a small screen black and white TV set to color. It was assembled at the end 1948 by Ernest Howell, a Denverite. Howell had been a radio engineer for Channel 5-TV and kindly donated it to the museum by his wife.

Home Made 1949 Set

In the late 40s and early 50s radio magazines started advertising RCA 630 type chassis for sale. These chassis were manufacturer's overstock, and were sold for installation in home made and custom cabinets. This set was made in 1949 in Springfield, Ohio, using one of these chassis.

Screen Size
Year Made
Quantity Made
Comments
Emissions Restrictions

14 inches
1949-50
1
Custom Printed
Not Restricted

(Created by E. Howell)

COLOR DAPTOR

Part I—Color wheel conversion
and other mechanisms required
and information of the complete system.

By PERRY H. VANTASIAN and ROBERT W. DUGASSE

WHEEL SYNC POLE PIECES

DRIVE MOTOR

WHEEL ALIGNMENT

WHEEL

WHITE COLOR BARS

WHITE COLOR BARS

PERMANENT MAGNET

The color wheel, as shown in Fig. 1, is a fairly simple device consisting of a thin metal frame supporting a wheel of colored plastic. This wheel contains a series of colored segments which are held in place by a series of small pins. The colors used are primary colors, red, green, and blue, plus a few other secondary colors. The wheel is mounted on a central axis which is driven by a small motor. The motor is connected to the wheel through a gear assembly. The wheel is also connected to a series of electronic components which are used to control the color output. The wheel is mounted on a base which is connected to a power source.

The basic principle of the color wheel system is that it uses the three primary colors of light (red, green, and blue) to produce a wide range of colors. The wheel is rotated at a constant speed, and the different colors are projected onto a screen or other surface. The colors are produced by the interaction of the three primary colors. The wheel is mounted on a base which is connected to a power source.

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Colordaptor

This kit converted a small screen black and white TV set to color. It was assembled in the mid 50s by Edward Hauff, a Columbus resident who was an engineer for channel 6. It was kindly donated to the museum by his wife.



Col-R-Tel

The Col-R-Tel was designed to be put in front of a ten inch black and white TV set to convert it to color. It has a large plastic wheel with one segment containing each of the three primary colors. The wheel is turned by a small electric motor. This unit was donated by Dick Carr of Warren, New Jersey.

Screen Size	10 inch
Year Made	1955
Quantity Made	?
Cabinet	Original Finish
Electronic Restoration	Not Restored

**Admiral Ambassador
C322C16**

This set was one of Admiral's first
21 inch production sets,
introduced in 1957.

Screen Size	21inch
Year Made	1957
Quantity Made	?
Cabinet	Original Finish
Electronic Restoration	Not Restored

Admiral Ambassador
C322C16

This set was one of Admiral's first
21 inch production sets,
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Screen Size	21inch
Year Made	1957
Quantity Made	?
Cabinet	Original Finish
Electronic Restoration	Not Restored

















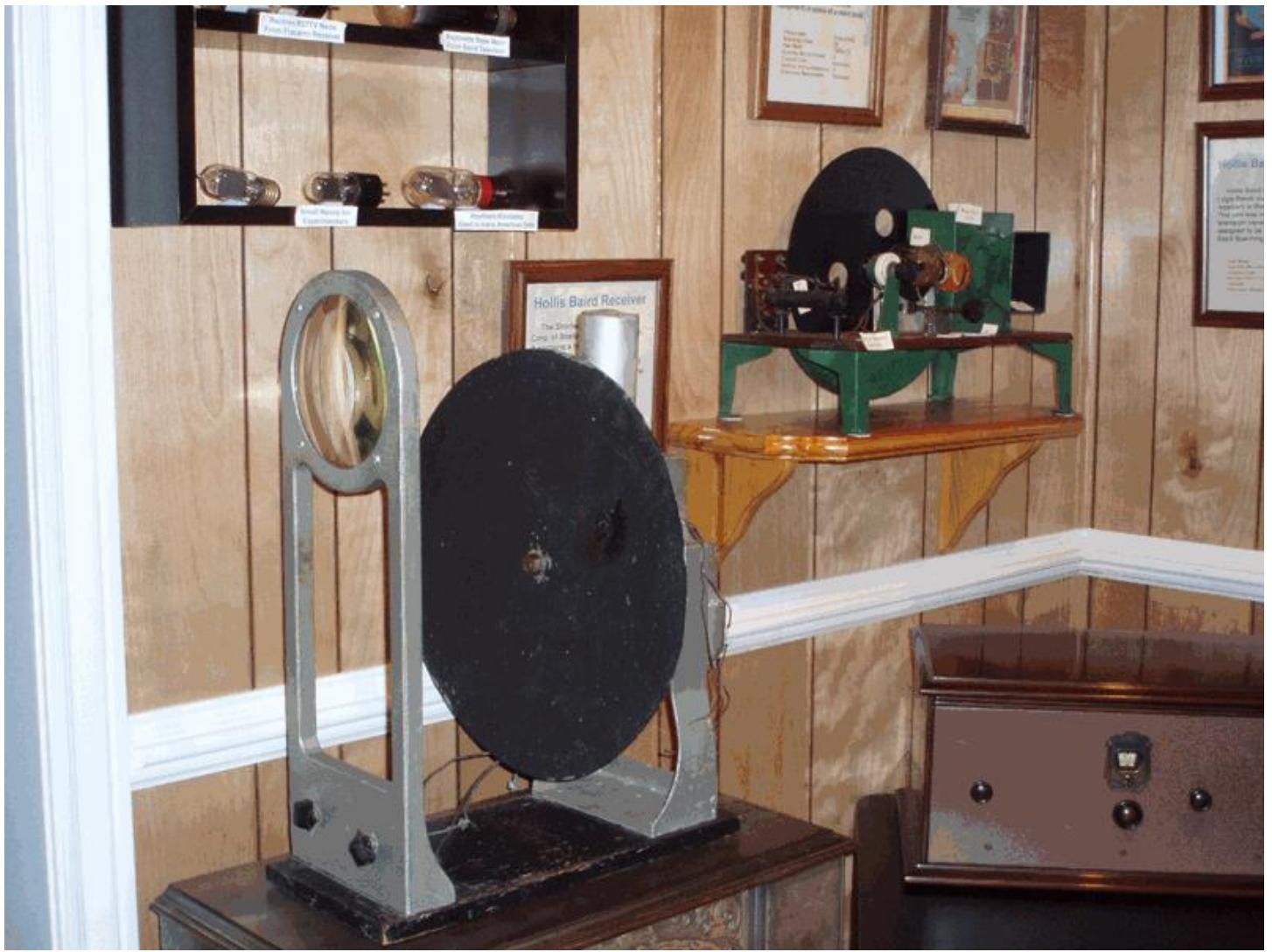




























12AP4

This tube was made in 1939, and used in all U.S. 12 inch mirror in lid sets.

The reason for the mirror in lid design is that the 12AP4 is so long that a set made with the tube mounted horizontally would stick out too far from the wall.











