

See! Hear!—

AMERICAN TELECEIVERS for 1939

The advertisement features six illustrations of early television sets. The top row shows a woman sitting at a table with an RCA Victor set on the left and a DuMont set on the right. The middle row shows a General Electric set on the left and a Westinghouse set on the right. The bottom row shows a Pilot set on the left and a Stewart-Warner set on the right. Each set is labeled with its brand name. The RCA Victor and DuMont sets are shown in a domestic setting with a woman. The other sets are shown in a studio setting.

RCA VICTOR

DuMONT

GENERAL ELECTRIC

WESTINGHOUSE

STEWART-WARNER

PILOT

COINCIDENT with scheduled television transmissions by NBC/RCA at the opening of the New York World's Fair 1939 on April 30, foremost radio set manufacturers announced availability of new television receivers, and image-receiver — sound-converter units.

Radio-Craft here presents to its readers views of certain of these "teleceivers"—most of which are representative of an entire line—and the following review of these models, and the additional models where other models are available.

RCA VICTOR. Illustrated on this page is the RCA combined image receiver and sound converter, model TT-5. It employs a direct-viewing 5-inch kinescope (cathode-ray receiving tube) with an image which measures 3½ x 4½ ins. The chassis incorporates 16 tubes, plus the kinescope. Overall dimensions of this table model instrument are: (Continued on page 744)

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165/16 x 9 3/4 x 19 1/2 ins. deep. The price of this attachment is in the \$175-200 range. The remaining 2 set models, described below, are in the \$200-600 range.

The model TRK-5 is a console, also with a 5-in. kinescope. It has 24 tubes, plus kinescope, and incorporates electric tuning in the 8-tube, all-wave radio chassis. Impressive, modern-style cabinet is built of brilliant woods, skilfully finished. Size: 43 1/2 ins. high, 29 1/2 ins. wide and 18 13/16 ins. deep.

The model TRK-9 RCA Victor television receiver has a 9-in. kinescope, reproducing images 5 1/2 by 7 1/2 ins. for direct viewing from in front of cabinet. It employs 36 tubes (including a 12-tube, 3-band all-wave radio chassis and switch for victrola attachment), and the kinescope. Measures 47 1/2 ins. high, 31 1/2 ins. wide and 24 3/16 ins. deep.

The RCA model TRK-12 television receiver is the most comprehensive job in the entire line. It utilizes 36 tubes in addition to the cathode-ray receiving tube. It has a 12-in. kinescope which reproduces an image 7 1/2 by 9 1/2 ins. on a mirror on the underside of the raised lid for indirect viewing. Reproduces images in unusually fine detail. Electric tuning for sound reception is provided for 9 stations. Cabinet is of fine matched woods, and measures 40 1/2 ins. high, 34 1/2 ins. wide and 19 1/2 ins. deep.

Du MONT. Newest development in the television receiver line of Allen B. DuMont Labs., Inc., is the "orchestra seat" model illustrated on pg. 723. The cathode-ray tube is mounted in an inclined position so that its front face is tilted upwards. Thus both the nearby sitter or the person standing some distance away can view the image to best advantage. This low-console sight and sound receiver is equipped with a 14-in. cathode-ray receiving tube capable of presenting a sharp, brilliant 5- x 10-in. image comparable in quality to 16-millimeter film projection. The low-console model receiver lists for \$445.

A high-console receiver model is available at the same price.

A table model, also using the 14-in. cathode-ray tube (and also 22 other tubes mounted in double-deck chassis), lists for \$395.

GENERAL ELECTRIC. Five television receiver models, ranging from an image receiver with sound converter to consoles combining television and all-wave radio, have been announced for spring production by the General Electric radio and television division, Bridgeport, Conn.

Smallest set—the one illustrated on pg. 723—in the line is the HM-171, a table-type image receiver with sound converter. It can be used to receive television images without sound, or can be used in conjunction with special types of radio receivers which will be made available later. The table model employs a 5-in. image tube, included in the complement of 17 tubes. The set measures 14 1/2 x 20 x 19 ins. deep.

Model HM-185 is a console-type television receiver for both sight and sound, also employing a 5-in. image tube. It has 18 tubes in all, has average high-fidelity audio, and is 38 ins. high, 23 ins. wide, and approx. 18 ins. deep. Controls are similar to those on the smaller set with the addition of volume and tone control.

Model HM-225 is a console-type television receiver for sight and sound employing 22 tubes, including a 9-in. image tube. It has 2 chassis—video-sound and power, and high-fidelity audio. This model is slightly larger than the HM-185, and controls are similar.

The 2 remaining console models, the HM-226 and the HM-275, combine all-wave radio and television receiver features. The former employs 29 tubes and the latter 30 tubes, including a 12-in. image tube. Each has a video-sound, power, and radio chassis.

Approximate price range of the new television receivers is from \$250 to \$1,000.

WESTINGHOUSE. The Spring line of television receivers just announced by Westinghouse Electric Supply Company includes 4 models of which the WRT-700, illustrated on pg. 723, is representative.

It has unusual interest however in view of the fact that the WRT-700 is a television attachment called the televisor which connects to an external radio receiver for the associated sound portion of the television equipment. The image is set up on the end of the 5-in. kinescope in the table-model televisor while the sound portion of the program is filtered out and transferred by means of a converter to an associated radio receiver. This latter feature makes television reception available at minimum cost. Price of WRT-700, \$199.50.

The de luxe televisor WRT-703 consists of a 12-tube, 3-band radio and television receiver with 12-in. kinescope housed in a specially-designed cabinet of selected woods. All controls are concealed by the lid which in use is elevated to a 45-degree angle to allow viewing the image in the mirror fixed to the inside of the lid. Price, \$600.

The television controls have been reduced to a minimum of 3 dual controls.

The radio receiver has 12 tubes, 12 W. of output, 12-in. dynamic speaker, 3 frequency bands, and 8-button station selection.

The WRT-701. This television console uses a 5-in. kinescope and an 8-tube, 3-band, 6-pushbutton radio set. Price, \$295. Output, 5 1/2 W.; 12-in. dynamic speaker.

The WRT-702 televisor contains a 9-in. kinescope and 12-tube radio receiver similar to the above unit. This receiver has the kinescope mounted horizontally. Thus the image screen and all controls are on the face of the cabinet. Television controls and radio chassis, same as WRT-703. Price, \$450.

PILOT. An oldtimer in television—as time is counted in this field—is Pilot Radio Corp., which began public demonstrations with scanning-disk equipment in 1927. Culminating laboratory work on electronic equipment is the Pilot model T-90 just announced; shown on page 723. This is a 20-tube, high-definition, high-fidelity television receiver using a superheterodyne circuit.

Among the innovations in this receiver, is a full automatic raster control, specifically designed to prevent the formation of spots and blemishes on the screen, and to prevent damage to the cathode-ray tube while it is warming up. In line with this feature, the receiver also has an automatic background lighting control, enabling the reproduction of the exact degree of brightness, as transmitted at the original scene. The intensity control is then operated only to set the brightness level.

The images, on a 9-in. screen, are black and white, and of sufficient brightness to be viewed in daylight.

Prices on entire line: 9-in. tube table model, \$250; 9-in. console, \$295; 12-console, \$475.

STEWART-WARNER. The Stewart-Warner television set (see page 723) claims a distinctive high-fidelity sound channel that adds realism to the reception. Complete instrument has 25 tubes, with 12-in. C-R tube.

Please Say That You Saw It in RADIO-CRAFT

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Courtesy of Bob Lutz