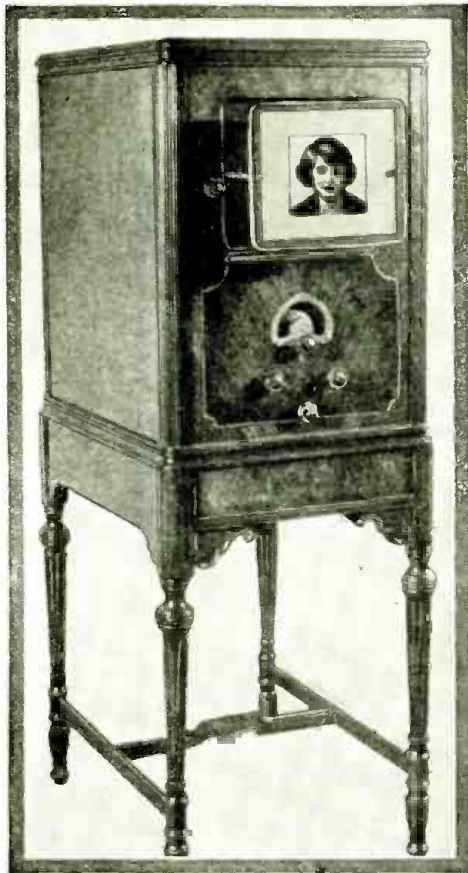


JENKINS NEW HOME PROJECTOR GIVES LARGE IMAGE



New Jenkins large image console.

PROVIDING a large, brilliant, undistorted screen image that may be viewed by the largest home group, as contrasted with the peep-hole image and the handful of lookers-in of previous equipment, the latest Jenkins Projector Radiovisor marks an important step forward.

The new projector radiovisor comprises a lens scanning disc, DeForest spot-source neon crater tube, translucent screen, driving motor, focusing adjustment, framing handle and motor controls, mounted in neat and compact chassis form.

The unique feature of this radiovisor is the 12-inch scanning disc with

Crater tube plus lens disc gives large brilliant image.

60 lenses, each of 7/16-inch diameter. The intense spot of light provided by the crater neon tube is focused, by means of a condensing lens, on to the lens scanning disc, which in turn throws a flying spot on the reverse side of a ground glass screen, to weave the picture. The scanning disc is rotated by the driving motor which is synchronized with the intercepted television signal, either by using a common A.C. power system or by the carrier beat of 1200 cycles.

The DeForest crater neon tube is an entirely new and startling development, aimed at producing a highly responsive and concentrated light source for projected television pictures. The screen picture may be adjusted and focussed for any size from 3 x 3½ inches up to 8¾ x 10 inches. The focusing control is on the front of the radiovisor chassis, as is also the small handle for framing the pictures.

The driving motor is of unique design, assuring constant speed and silent operation. It offers no interference for the television receiver, which may be placed in close proximity for compactness of the entire television set.

The projector radiovisor is available in chassis form or mounted, in combination with the receiver, in a handsome walnut console cabinet for living-room use.

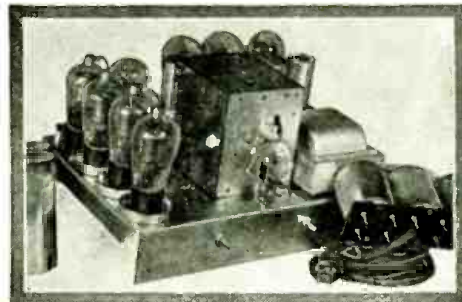


Side-view of new home projector with Crater lamp and lens disc.

New Dual Range Television Receiver

MEETING the first prerequisite of an ideal television tuner and amplifier, the new Jenkins Model JD-30 receiver in addition serves as a com-

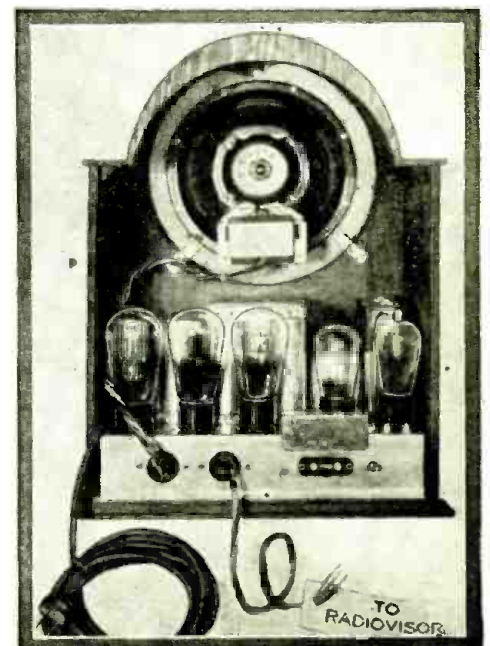
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Above—Chassis of "Dual-Range" television and short wave receiver.

Left—Front of "Dual Range" television receiver.

Rear of receiver showing loud speaker and television terminals.



TELEVISION TIME-TABLE

Furnished by U. S. Dept. of Commerce, Radio Division, Washington, D. C.

Location of Transmitter	Lines per Frame	Call Signal	Frequency in kilocycles (meters in parentheses)	Power (watts in antenna)	Licensee and Address
California: (Gardens (near))	—	WCNS	2,100 (142.9 to 2,200 (136.4)	500	Don Lee (Inc.)
Illinois: Chicago	48	W9XAA	2,000 (150) to 2,100 (142.9), 2,750 (109.1) to 2,850 (105.3)	1,000	Chicago Federation of Labor.
" "	45	W9XAO	2,000 (150) to 2,100 (142.9)	500	Western Television Corp., 6312 Bway.
" "	45	W9XAP	2,100 (142.9) to 2,200 (136.4)	2,500	Chicago Daily News
Downers Grove	24	W9XR	2,850 (105.3) to 2,950 (101.7)	5,000	Great Lakes Broadcasting Co., 72 W. Adams St., Chicago.
Indiana: West Lafayette	—	W9XG	2,750 (109.1) to 2,850 (105.3)	1,500	Purdue University, 400 Northwestern Ave.
Iowa: Iowa City	—	W9XAZ	2,000 (150) to 2,100 (142.9)	500	State University of Iowa
Maryland: Silver Springs	60	W3XK	2,000 (150) to 2,100 (142.9)	5,000	Jenkins Laboratories, 1519 Connecticut Ave., Washington, D. C.
Massachusetts: Boston	60	W1XAV	2,850 (105.3) to 2,950 (101.7)	1,000	Shortwave and Television Laboratory (Inc.)
New Jersey: Allwood	60	W2XCP	2,000 (150) to 2,100 (142.9), 2,850 (105.3) to 2,950 (101.7)	2,000	Freed-Eisemann Radio Corp., Junius St. & Liberty Ave., New York, N. Y.
Camden	60	W3XAD	2,100 (142.9) to 2,200 (136.4), 43,000 (6.97) to 46,000 (6.52), 48,500 (6.18) to 50,300 (5.96), 60,000 (5) to 80,000 (3.75)	500	R. C. A. Victor Company (Inc.)
Passaic	60	W2XCD	2,000 (150) to 2,100 (142.9)	5,000	De Forest Radio Co.
New York: Beacon	48	W2XBV	2,000 (150) to 2,100 (142.9)	100	Harold E. Smith.
Long Island City	—	W2XBO	2,750 (109.1) to 2,850 (105.3)	500	United Research Corp., 39 Van Pelt Ave.
" " "	60	W2XR	2,100 (142.9) to 2,200 (136.4), 2,850 (105.3) to 2,950 (101.69)	500	Radio Pictures, Inc., 3101 Northern Blvd.
New York	60	W2XAB	2,750 (109.1) to 2,850 (105.3)	500	Atlantic Broadcasting Corp., 485 Madison Ave.
" "	60	W2XBS	2,100 (142.9) to 2,200 (136.4)	5,000	National Broadcasting Co. (Inc.), 711 Fifth Ave.
" "	60	W2XCR	2,000 (150) to 2,100 (142.9)	5,000	Jenkins Television Corp., 655 5th Ave.
Ossining	—	W2XX	2,000 (150) to 2,100 (142.9)	100	Robert F. Gowen.
Schenectady	—	W2XCW	2,100 (142.9) to 2,200 (136.4)	20,000	General Electric Co.
Pennsylvania: East Pittsburgh	60	W8XAV	2,100 (142.9) to 2,200 (136.4)	20,000	Westinghouse Electric & Mfg. Co.
" "	60	W8XT	660 (455)	25,000	Westinghouse Electric & Mfg. Co.
Wisconsin: Milwaukee	—	W9XD	43,000 (6.97) to 46,000 (6.52), 48,500 (6.18) to 50,000 (5.96), 60,000 (5) to 80,000 (3.75)	500	The Journal Co. (Milwaukee Journal).
PORTABLE					
Massachusetts: Boston	60	W1XG	43,000 (6.977) to 46,000 (6.522), 48,500 (6.186) to 50,300 (5.964), 60,000 (5), 80,000 (3.75)	30	Shortwave & Television Corp., 70 Brookline Ave.
New Jersey: Passaic	60	W2XAP	2,000 (150) to 2,100 (142.9)	250	Jenkins Television Corp.
Bound Brook	60	W3XAK	2,100 (142.9) to 2,200 (136.4)	5,000	National Broadcasting Co., Inc.
New York State: —	—	W2XBT	43,000 (6.977) to 46,000 (6.522), 48,500 (6.186) to 50,300 (5.964), 60,000 (5), 80,000 (3.75)	750	National Broadcasting Co., Inc.
United States: (Throughout)	60	W10XG	43,000 (6.977) to 46,000 (6.522), 48,500 (6.186) to 50,000 (5.964), 60,000 (5), 80,000 (3.75)	500	De Forest Radio Co., Passaic, N. J.

Time on the Air: The daily newspapers in the larger cities—Chicago, New York and Boston, for example—carry television programs and time schedules.

Experimental television stations, such as those operated by the N. B. C., Westinghouse, General Electric Co., etc., are on the air practically every day, testing, and can be picked up. The Jenkins stations' time schedules are as follows:

W2XCR—N. Y. City. 3 to 5 and 6 to 8 P.M. daily; 6 to 8 P.M. Sunday. Voice transmitted over WGBS, on 384.4 meters or 780 k.c.

W3XK—Washington, D. C., 7 to 9 P.M. and 10:30 to 11:30 P.M. daily (D.S.T.). 60 holes. W2XAP—Passaic (Portable transmitter). 60 line, 20 frames per second "standard"—Time irregular—Experimental.

W2XCD—Passaic (De Forest Radio Corp.). 9 to 10 P.M. daily. Sound accompaniment transmitted on 1,601 k.c.

Columbia Broadcasting System (W2XAB) went on daily transmission schedule July 21st, 60 holes, 20 frames (revs.) per second (or 1,200 r.p.m.). Voice transmitted on 6,120 k.c. (49.02 meters) W2XE.

Short Wave and Television Corp., Boston, Mass., transmits image (W1XAV) daily, 60 holes, 20 frames per second, and voice accompaniment on 1604 k.c. or 187 meters (W1XAU).

It is understood, of course, that two receiving tuners or sets are required to pick up voice and image, such as from W2XCR and WGBS, one set tuned to 147.5 meters for reception of the image and one set tuned to WGBS or 384.4 meters to pick up the voice.

Daily image programs are broadcast by the Boston station W1XAV, and also by the Chicago stations W9XAA, W9XAO and W9XAP.

Jenkins New Home Projector

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combined broadcast and short-wave receiver by the simple expedient of changing the unique ganged plug-in coil units. It is a truly universal receiver not only in the matter of covering different wave bands, but also in providing the ideal degree of selectivity for each class of reception.

For television reception, the Jenkins receiver covers the wave band from 80 to 200 meters, with the necessary broadness of tuning for maximum pictorial detail. Additional plug-in coils conveniently ganged and housed in a metal casing as single units, to facilitate rapid change from one band to another, can be employed to cover the "broadcast" and the "short-wave" bands as well.

The receiver includes two stages of tuned radio-frequency amplification, with single-dial tuner for simplified operation. A knob controls power switch and output volume, while another knob switches the output from loud-speaker to radiovisor. The resistance-coupled amplifier delivers an output of 55 milliamperes for the operation of the DeForest crater neon lamp in the Jenkins Projector Radiovisor. A dynamic speaker is included.

The tube equipment comprises four '24 A.C. screen-grids, one '27 A.C. detector, two '45 power tubes, and one '80 rectifier. The Jenkins receiver is designed for 110-120 volt A.C. operation. Its components are fully shielded. The receiver is available in chassis form or in a beautifully finished walnut console cabinet, alone or with the Jenkins Projector Radiovisor.

Behind the Scenes in a Television Studio

(Continued from page 337)

eyes are focused almost straight into the optical pick-up; each sheet of manuscript is dropped on the floor as soon as it has been read. The right-hand picture shows how a piano bench and "baby" upright piano are mounted on stilts, so that the artist's face (and occasionally the hands also) can be "picked up" by the televisior.

Light-Controlling Means

(Continued from page 372)

effect is in the opposite sense for each traverse. The passage twice through the crystal doubles the effect of a voltage across the condenser plates in rotating the plane of polarization and valving light. The system may also be used in a straightforward manner, without the double-passage feature, by inserting an idle piezo crystal in the path of the ray, so orientated as to cancel the dispersion due to the active crystal.