



Amperex® Electronic Corporation

A NORTH AMERICAN PHILIPS COMPANY

MANUFACTURERS OF ELECTRON TUBES • SEMICONDUCTORS
INTEGRATED CIRCUITS • COMPONENTS • ELECTRO-OPTICAL DEVICES

For Immediate Release

**NEW AMPEREX PLUMBICON* CAMERA TUBE
WITH 65% MODULATION DEPTH AT 400 TVL
DESIGNED FOR EFP AND STUDIO APPLICATIONS.**

Slatersville, Rhode Island: A new 1-inch Plumbicon TV camera tube expected to have a major impact on Electronic Field Production has been announced by Amperex Electronic Corporation, a wholly owned subsidiary of North American Philips Corporation.

The new tube, designated type S73XQ, will permit the design of portable cameras for use in Electronic Field Production, which will equal the level of performance that is now characteristic of only the highest quality broadcast equipment.

Physically interchangeable with conventional 1-inch Plumbicon pickup tubes, the S73XQ can be used in existing cameras with only minor circuit modifications. Its limiting resolution is 1000 TV lines; modulation depth is 65% at 400 TV lines, a 50% advance over previous 1-inch Plumbicon tubes.

In addition to the new tube's high resolution, the increased beam acceptance of its photoconductive layer greatly reduces signal decay lag, even at low light levels: decay lag at 50 msec is typically 2% at signal levels down to 50 nA.

Other important technical advances in the S73XQ include a significant increase in beam reserve (resulting in reduced comet-tailing and blooming) and a low-capacitance target contact that allows overall signal-to-noise ratio to be maximized. A unique feature of the S73XQ is a modified triode electron gun operating in a diode mode; this "diode gun" (patent pending) concept improves the electron beam's energy distribution uniformity to provide smaller spot size and better control over spot shape.

According to Amperex, the rapidly developing techniques of Electronic Field Production and Electronic Cinematography are creating demands for new levels of picture quality in portable cameras using 1-inch pickup tubes. The S73XQ, a further extension of Plumbicon tube technology, makes it feasible to produce video tapes of studio quality with field production facilities and to achieve new levels of performance with studio cameras.

Pre-production samples of the S73XQ are available from Amperex for evaluation by qualified sources.

Further information may be obtained by contacting: Product Manager, Imaging Tubes, Amperex Electronic Corporation, Slatersville Division, Slatersville, Rhode Island 02876. Telephone: 401-762-3800.

*Trademark of N.V. Philips of the Netherlands.

* * * * *