



THE RCA

TV EYE

**A NEW PROFIT OPPORTUNITY
IN INDUSTRIAL ELECTRONICS**



*Distributed Products Sales
Engineering Products Division*
RADIO CORPORATION OF AMERICA
Camden, N. J.

CLOSED CIRCUIT TELEVISION

IS PAST THE

"GROWING PAINS"

STAGE

- It was developed by RCA as far back as 1938.

- Diligent Research, Especially for the Military During World War II, Refined Closed Circuit TV—Took the "Bugs" Out of It.

- A Simplified Pick-Up Tube—The Vidicon—Was Introduced by RCA in 1949.

- The First RCA Commercial Prototype—ITV—Confirmed the Vast Potential for Closed Circuit TV.

- Finally the Development of a more Economical Control Circuit Led to the Ingenious Low-Cost TV Eye.

- With the Perfection of TV Eye a Market of Truly Tremendous Proportions Is Within Grasp.

THIS IS

TV EYE

Compact . . .

Low Cost . . .

Easy-to-Operate

Closed Circuit

TV Chain . . .



CAMERA



CONTROL UNIT



STANDARD TV RECEIVER

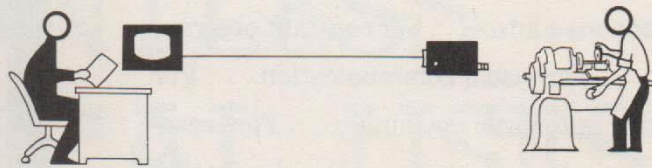
CONNECTED
TO

HERE'S **WHAT** TV EYE

ACCOMPLISHES

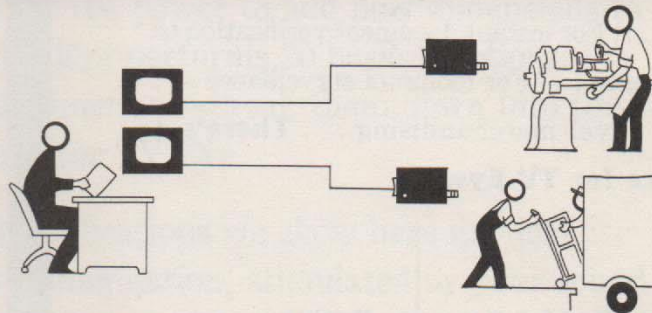
EXTENDS

HUMAN VISION



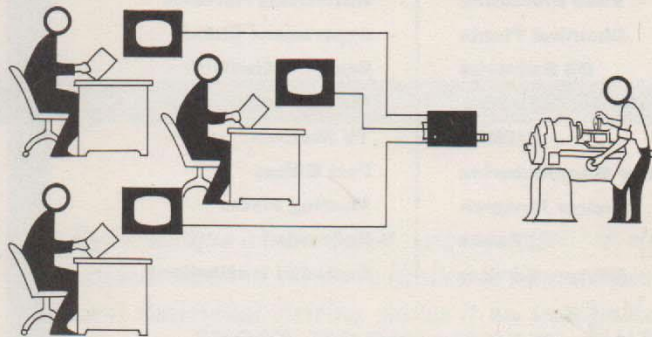
EXPANDS

HUMAN VISION



MULTIPLIES

HUMAN VISION



TV EYE *watches tirelessly...efficiently.*

Affords better control...reduction of costs...

safer operation...superior protection of property.

TV EYE CAN BE PUT TO WORK

EVERYWHERE

Wherever there is a need for positive, continuous control . . . For constant observation . . . For visual communication . . . For piloting automatic machinery . . . For ceaseless property protection . . . For elimination of danger to personnel . . . For group visual training . . . For "bird's eye" traffic direction . . . For instant document verification or reference . . . For foolproof surveillance . . . For novel merchandising . . . **There's a place for TV Eye.**

Heavy Manufacturing	Hospitals
Parts Fabrication	Universities
Food Processing	Advertising Agencies
Chemical Plants	Department Stores
Oil Refineries	Bridge Authorities
Raw Materials Converters	Air Terminals
Utilities	TV Stations
Explosive Manufacturing	Post Offices
Nuclear Research	Meeting Places
Banks	Railroads
Military Services	Custodial Institutions

and many, many more

LET'S GET SPECIFIC

TV Eye performs

20

basic functions

- Training and Instruction**
- Production Control**
- Surveillance**
- Property Protection**
- Material Handling**
- Dangerous Viewing**
- Remote Observation**
- Traffic Control**
- Process Control**
- Work Coordination**
- Centralized Record Viewing and Document Verification**
- Merchandising and Promotion Display**
- Silent Paging**
- Accommodation of Overflow Crowds**
- Protection In Homes and Apartment Houses**
- Informational Aid**
- TV and Stage Rehearsals**
- General Action Monitoring**
- Tie-in With Community Antennaplex and Other Multiple Antenna Systems**

TV EYE'S

**BASIC FUNCTIONS CAN BE
BROKEN DOWN INTO**

COUNTLESS PRACTICAL USES

You have seen how TV Eye has the power to add new dimensions to human vision . . . how TV Eye performs 20 basic functions. Now let's define the 20 basic functions—break them down into the countless applications for TV Eye.

But remember—all these applications we show here are just “thought-starters”. Your own imagination, stimulated by your sound merchandising sense, will expand this listing many times.

TRAINING AND INSTRUCTION

TV Eye's unique power to let large groups see clearly instructional material formerly limited to time-consuming, inefficient individual viewing makes it an invaluable tool for education and training. TV Eye is the answer for teaching job techniques . . . Time and Motion Studies . . . Classroom discussion of microscope slides and of laboratory experiments . . . Surgical and Nursing Techniques . . . Training for TV and Stage . . . Group Study of Art . . . Military Weapons Training.

**PRODUCTION
CONTROL**

TV Eye can do a hundred control jobs in factories more efficiently, more safely, more positively than ever before . . . to guide the operation of automatic machinery . . . keep check on meters and gauges . . . direct the strategic placement of personnel on moving assembly lines . . . maintain smooth flow of material on conveyor belts . . . and watch over life tests.

SURVEILLANCE

The ever-alert TV Eye—always on the job, always concentrating on the scene of possible trouble—is the ideal detection instrument. TV Eye has been put to work . . . Guarding prison corridors . . . Detecting shoplifting . . . Ferreting out warehouse pilferage . . . Watching over handling of mail . . . Observing conduct at money tills . . . Identification in police line-ups . . . Safeguarding patients in mental institutions.

**PROPERTY
PROTECTION**

TV Eye can be many places at the same time standing constant guard. Train TV Eye on . . . plant exits and entrances . . . receiving platforms and shipping docks . . . restricted areas . . . warehouses . . . bank teller windows . . . military installations.

TRAFFIC CONTROL

TV Eye has been pressed into service . . . to direct the flow of traffic . . . At busy intersections . . . On bridges . . . In bus terminals . . . In freight yards . . . At airports . . . In elevators.

**MATERIAL
HANDLING**

TV Eye is the best traffic cop wherever speedy handling of material is critical to the efficiency of an operation. Think of TV Eye . . . In large warehouses where fork lifts are used extensively . . . On manufacturing floors where overhead cranes and other lifting devices are constantly in use . . . On shipping docks where rigging and lifting apparatus are at work loading cargoes . . . In foundries and mills moving materials inherently dangerous to personnel.

**DANGEROUS
VIEWING**

No matter how hot, cold, or dangerous it is, any operation can be viewed with the help of TV Eye in perfect safety and comfort. This is the role of TV Eye as a protector of personnel . . . Watching dangerous shell loading operations . . . Tests of explosive materials . . . Jet Engine Tests . . . Wind tunnel tests . . . Destruction tests . . . To guide the conveyors of potentially hazardous products . . . In nuclear research . . . For dangerous inspection tasks . . . Mining operations.

**REMOTE
OBSERVATION**

If noxious fumes, humidity, or inaccessibility create an obstacle to continuous observation let TV Eye do the job . . . analyze smoke out of the stack for more efficient furnace operation . . . check boiler water levels . . . look at fuming matter in vats . . . inspect for corrosion in tanks . . . provide managers with an instantaneous multiple view of key points in operation.

PROCESS CONTROL

TV Eye has gone into food processing plants, chemical plants, paint factories, dairies, raw material conveyor plants . . . to keep tireless guard over Gauges . . . Meters . . . Batch operations . . . Slicing machines . . . Continuous flow processes . . . Container filling operations.

WORK COORDINATION

TV Eye's power to communicate quickly, to get the message across with pictures makes it a perfect instrument of efficiency in progressive manufacturing. With TV Eye . . . quality control can point out details of production problems quickly and efficiently to the engineering group . . . the design office can get in touch with the fabricating supervisor to discuss the feasibility of the proposed plan . . . the drafting room can put a drawing on view for the production supervisor . . . the plant manager can shift personnel to meet emergency production situations . . . airports can coordinate the activities of service crews, caterers, and passenger information clerks.

CENTRALIZED RECORD VIEWING AND DOCUMENT VERIFICATION

In factories, banks, government buildings, libraries, museums, TV Eye is used . . . to permit inspection of records and documents without risk of loss or damage from handling. Among the many types of data TV Eye can put on view are . . . Stock records . . . Inventory records . . . Signatures on checks . . . Deeds . . . Rare and valuable papers and books.

**MERCHANDISING
AND PROMOTION**

TV Eye can be found . . . In department stores, to promote special sales, fashion shows, new departments and services . . . In hotels, in connection with Antenaplex systems, to attract patronage to the bar or night club, to encourage room service, to promote the dining room . . . In advertising agencies to show clients proposed TV commercials . . . In photographic studios to let patrons see themselves as the camera sees them . . . By exhibitors in trade shows in see-yourself applications to attract traffic to booths.

DISPLAY

Where display is rendered difficult by the size of the item—large or small—or its distance from the main body of viewers, TV Eye can always solve the problem. It has been used . . . to show a new car on receivers in the hotel lobby when the Auto Show is located in the basement of the building . . . by merchants to show passers-by a demonstration taking place in the store. It has been used by department stores to show people looking in one window what can be seen in other windows around the corner.

SILENT PAGING

By displaying their names on strategically located TV receivers, TV Eye can locate people silently and efficiently . . . in Hotels . . . Hospitals . . . Trade Shows . . . Conventions.

**ACCOMMODATION
OF OVERFLOW
CROWDS**

TV Eye can help rack up new attendance records at all types of meeting places. Whenever all who wish to witness the event cannot physically be in the same location as the speaker, TV Eye can show the speaker to overflow crowds: In churches . . . Auditoriums . . . Sales Meetings . . . Conventions . . . Lectures.

**PROTECTION IN HOMES
AND APARTMENT
HOUSES**

TV Eye's ability to maintain ceaseless vigil . . . can be employed by the mother to watch children at play in the back yard . . . or in the recreation room . . . or trained on baby in the nursery. In apartment houses, TV Eye can be installed over the directory to give the resident a look at visitors before pressing the admittance buzzer.

**INFORMATIONAL
AID**

Fairs, trade shows, department stores have put TV Eye to work in pointing out directions on a map . . . placing a monitor in front of a telephone enables the caller to see and hear the charming lady who gives out the information.

**TV AND STAGE
REHEARSALS**

Embryo performers consider TV Eye their best critic. It lets them see themselves as their audiences will see them . . . gives them a vehicle for perfecting gestures and facial expressions.

**GENERAL ACTION
MONITORING**

Wherever it is necessary to keep general movement in view TV Eye can do it better . . . For behind-the-scenes management of an ice-skating spectacle . . . For maneuvering a ship alongside the dock . . . For observing the play at mutual windows at a race track.

**TIE-IN WITH
COMMUNITY
ANTENAPLEX
AND OTHER
MULTIPLE ANTENNA
SYSTEMS**

With the aid of TV Eye, Community Antenaplex operators can give extra service and add revenue . . . through spot announcements of local interest and through advertising on slides.

IT'S OBVIOUS—

YOUR TV EYE

MARKET

IS WORTH GOING AFTER

THE RIGHT WAY

HERE'S HOW

know your product

know your market

know user-benefits

plan your sales approach

maintain adequate inventory

**make effective use of
RCA sales promotion and advertising**

demonstrate

follow through

set up maintenance facilities

KNOW YOUR PRODUCT

Study the instruction book and service notes thoroughly.

Learn proper lighting techniques. See Appendix II.

Practice demonstrating the equipment *before* you see the prospect.

Know TV Eye's capabilities and limitations.

KNOW YOUR MARKET

Use the "prospects applications" chart on the following pages.

Translate the prospect list into specific names in your trading area.

Let your imagination go—Expand the list on basis of your own experience and merchandising sense.

BASIC

PROSPECT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Advertising Agencies			
Airports		
Airlines									
Amusement Parks			
Army Posts	
Auditoriums						
Apartment Houses			
Architects																				
<i>Consult them for leads—Sell TV Eye as part of building</i>																				
Banks		
Breweries			
Boats					
Bridges				.				.												.
Brokers									
Bus Terminals				.				.												
Camps
Canneries	
Carloading						
Cement Plants										
Centrifugal machinery manufacturers										
Chemical plants	
Churches							.								.		.			
City governments					
Clinics					
Clubs														.	.					.
Chain stores
Carnivals							
Circuses		
Colleges
Contractors																				
<i>They can give you prospects—Check with them</i>																				
Consultants																				
<i>Cover many business fields—Acquaint them with TV Eye potential</i>																				
Dairy Equipment Manufacturers											
Dance Studios	.											.							.	
Department Stores							
Die Makers										
Dental Schools	.														.		.			
Distilleries											
Docks								.												.
Drug Manufacturers								
Dyers—Industrial							.			.	.									
Electrical Contractors																				
<i>Keep in touch with this group for leads to installations</i>																				
Electric Instrument Manufacturers											
Elevator Manufacturers		.			.		.													
Engineers—Consulting																				
<i>Have contacts with them for possible installations</i>																				
Express Companies		
Farm Equipment Manufacturers									
Fibre Products Manufacturers									
Food Processors								
Foundries										
Freight Forwarders														
Funeral Directors															.					
Furnace Manufacturers											
Garages		
Gas Equipment Manufacturers									
Gas Plants											
Glass Plants											
Hardware Manufacturers										
Hospitals
Homes																	.			
Hotels										
Hydroelectric Plants			

APPLICATIONS

PROSPECT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Insurance Companies	•									•	•									
Ironworks		•			•	•			•											
Jewelry Manufacturers		•	•				•		•	•										
Jewelry Schools	•										•		•							
Jails			•				•													
Knitting Machine Manufacturers		•		•					•											
Laboratories	•					•			•	•	•									
Laundry Machine Manufacturers		•		•	•				•	•	•									
Leather Goods Manufacturers		•			•				•	•										
Libraries							•				•									
Lubricant Manufacturers				•	•	•			•											
Lumber Mills				•	•		•													
Machine Shops		•			•				•											
Machine Tool Manufacturers		•		•	•	•				•										
Mining				•	•	•	•													
Milling Operations	•	•				•	•													
Metal Fabricators		•			•	•														
Mortgage Companies	•										•									
Naval Installations	•		•	•		•	•				•			•	•					•
Night Clubs													•		•					
Needle Trades	•	•								•										
Nursing Homes			•																•	
Oilfield Equipment Manufacturers		•		•	•	•			•											
Optical Schools	•									•										
Packing Houses				•	•				•											
Paint Manufacturers				•	•				•		•									
Paper Mills		•			•															
Pharmaceutical Manufacturers		•		•	•				•	•	•									
Photographers—Commercial	•												•						•	
Plastic Manufacturers		•		•		•			•											
Police Departments			•				•	•												•
Prisons			•				•	•			•									•
Power Plants			•		•	•	•				•									
Post Offices			•																	
Radio Stations	•												•						•	
Race Tracks															•					
Railroads							•	•						•						•
Refineries		•		•		•			•		•									•
Schools—General	•						•				•				•					•
Shipyards					•		•	•												•
Shoe Manufacturers		•		•	•				•											
Steel Mills		•		•	•	•		•	•	•										•
Textile Manufacturers		•			•				•											
Tobacco Manufacturers					•		•		•											
Toll Bridges			•					•												
TV Stations																			•	
Universities	•									•	•								•	•
Warehouses				•				•		•										•
Water Plants				•			•		•											
Wind Tunnels						•	•													
Woolen Mills		•		•	•				•	•										

KEY TO APPLICATIONS

- | | | | |
|-----------------------------|--|---|---|
| 1. Training and Instruction | 7. Remote Observation | 12. Merchandising Promotion | 17. Informational Aid |
| 2. Production Control | 8. Traffic Control | 13. Display | 18. TV and stage rehearsals |
| 3. Surveillance | 9. Process Control | 14. Silent paging | 19. General action monitoring |
| 4. Property Protection | 10. Work Coordination | 15. Accommodation of Overflow crowds | 20. Community Antennaplex or other multiple antenna systems |
| 5. Material Handling | 11. Centralized record viewing and document verification | 16. Protection—Homes and Apartment Houses | |

KNOW

USER- BENEFITS

Give your presentation greater conviction—Turn more contacts into sales.

Get more multiple installations—See TV Eye possibilities more readily.

Build personal prestige from professional competence.

TV EYE

SAVES TIME . . .

SAVES MONEY

Improves Efficiency . . .

Improves Personnel Safety

. . . Enhances Merchandising . . .

Helps Protect Property . . .

Improves Training and Instruction.

KNOW SPECIFIC BENEFITS FOR SPECIFIC USERS

PLAN YOUR SALES APPROACH

Get familiar with your customer's situation.

Show specifically how TV Eye can solve his problem.

Translate TV Eye's benefits into savings, greater efficiency . . .

Improved safety.

MAINTAIN ADEQUATE

INVENTORY

*"You can't do business
from an empty wagon"*

Maintain a TV Eye chain in your showroom for demonstration.

Equip your salesmen with demonstration TV Eye Units.

Stock enough TV Eyes to make multiple installations.

Place TV Eyes on shelf in plain view.

MAKE EFFECTIVE USE OF

RCA SALES PROMOTION AND ADVERTISING

Inaugurate Regular Program of Mailing Campaigns—Use Folders and Ad Reprints.

Leave Literature at Every Sales Contact.

Display Streamers and Literature Prominently.

Use Counter Display.

Place Local Newspaper Advertising

DEMONSTRATE

Emphasize importance of on-the-spot demonstration in every sales discussion.

Find out what the prospect wants to see.

Make a preliminary survey trip, if necessary, to determine conditions.

Check equipment carefully before you leave for demonstration.

Corral all major buying factors.

Make your demonstration look as easy as a big-leaguer catching a pop fly.

FOLLOW THROUGH

It's a proved fact—The second contact
(or third) may clinch the sale—
Follow up.

Keep after your satisfied users—
they're your Grade "A" prospects.

Cultivate the fields you have
already found productive.

Approach every potential user
in your area.

SET UP

MAINTENANCE FACILITIES

**INSURE CUSTOMER SATISFACTION WITH
EVERY INSTALLATION IN ANY OF THESE 3 WAYS:**

- Train your own service organization *or*
- Contract with a competent outside service group *or*
- Use RCA's nationwide facilities.

APPENDIX I

DEMONSTRATIONS

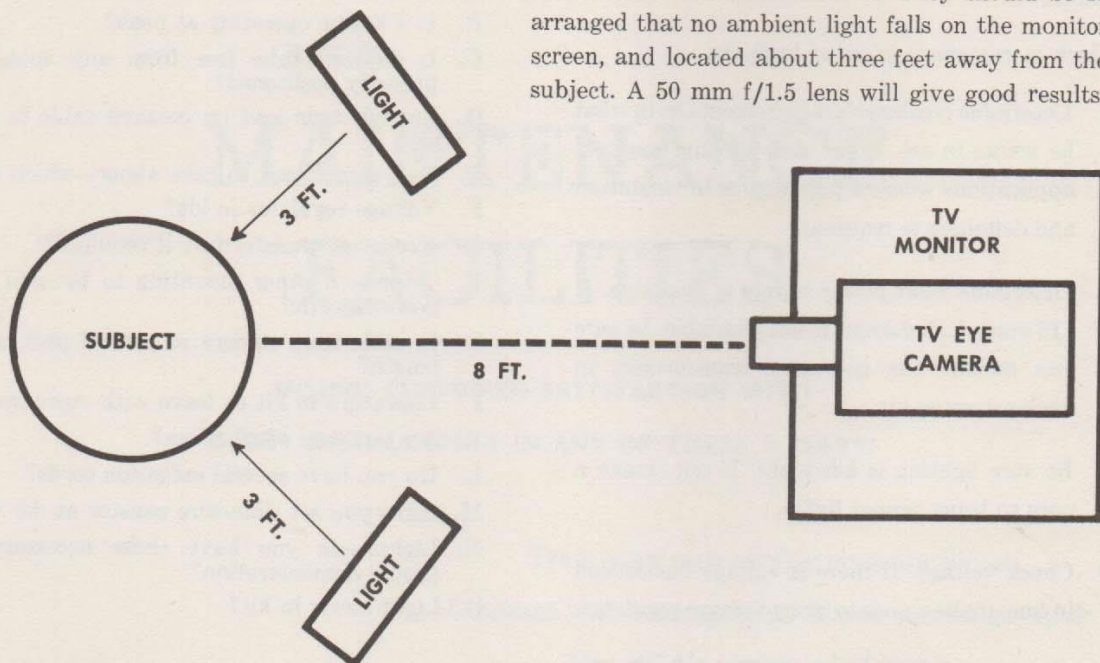
Before making a demonstration in your customer's place of business we recommend the following procedure:

1. *Check at customer's place of business.*
 - A. Determine customer's requirements as to what he wants to see. Steer clear of any marginal applications where a high degree of resolution and definition is required.
 - B. Determine what power supply is available. If 115 volts A.C. current is not available, be sure you include the necessary transformers in demonstration kit.
 - C. Be sure lighting is adequate. If not, make a note to bring proper lights.
 - D. Check voltage. If there is voltage fluctuation in line, make a note to bring voltage regulator.
2. *Check the following at your place of business before you leave for a demonstration.*
 - A. Is receiver in proper working order?
 - B. Is TV Eye operating at peak?
 - C. Is Vidicon tube free from any spots and properly positioned?
 - D. Enough twin-lead on co-axial cable in demo kit?
 - E. Lens assortment to take along—which ones?
 - F. Voltage regulator in kit?
 - G. Necessary transformer, if required?
 - H. Tripod—if other mounting to be used, is it non-magnetic?
 - I. Is cable from camera to control unit correct length?
 - J. Literature in kit to leave with customer?
 - K. Are you sure of all prices?
 - L. Do you have several extension cords?
 - M. Have you set slide-wire resistor at 6.3 volts?
 - N. Lights—do you have those necessary for proper demonstration?
 - O. Light meter in kit?

SOME EFFECTIVE DEMONSTRATIONS

SEE YOURSELF ON TELEVISION

This is one of the simplest methods of demonstrating the TV Eye, and also one of the most effective. The subject is seated in a chair so that it is not necessary to adjust the camera once it has been set. Directly in front of him and at eye-level is the TV monitor. Above the monitor is the TV Eye camera, about eight feet from the subject. Two fluorescent fixtures, each having two 20-watt tubes, are at either side of the monitor and in front of it. They should be so arranged that no ambient light falls on the monitor screen, and located about three feet away from the subject. A 50 mm f/1.5 lens will give good results.



In this demonstration, the TV Eye camera is mounted vertically on a rigid stand (a tripod will do). Just below the camera is a single tube fluorescent fixture (14-watt) directed on the subject. A 50 mm f/1.5 lens is used in this demonstration, with the subject about 8 inches from the end of the lens.

REMOTE READING OF SMALL PRINT

MICROSCOPE SLIDE VIEWING

The camera is mounted vertically and the lens is removed from the camera. The eyepiece is also removed from the microscope. The microscope tube is placed in lens mounting plate in the front of the camera. Be careful not to damage the face of the vidicon with the microscope tube. It may be necessary to slide the vidicon back in the vidicon socket in order to focus at this short distance. The standard sub-stage 6-watt microscope lamp is sufficient to give a picture and no special lighting is needed.

APPENDIX II

LIGHTING AND LENS INFORMATION

LIGHTING FOR THE TV EYE is very much like lighting for photography. Basically, any lighting has three important characteristics: direction, quality, and contrast. Let us consider each of these below:

1. DIRECTION

- A. *Front lighting*—"flat," creates few visible shadows, and bathes the subject with full, even illumination on side facing camera.
- B. *45° Side-lighting*—creates shadows on the subject and adds an illusion of three-dimensionality. Or with two side lights, creates a softening shadow effect.
- C. *90° Side-lighting*—skims surface of the subject and emphasizes texture. Shadows very deep on side opposite light.

2. QUALITY

By "Quality" we mean the degree of concentra-

tion of diffusion of lighting. *Spotlights* throw a highly concentrated, directional light, and produce black, clear-cut shadows. *Floodlights* cast a less concentrated beam and give softer shadows. *Fluorescent lighting* scatters the light or diffuses it more evenly, thus giving an almost directionless lighting effect and creates barely visible shadows.

3. CONTRAST

Lighting contrast is the scale of tones from the blackest shadow to the brightest highlight. It is a problem that is ever-recurring and depends greatly upon individual ideas, likes and dislikes. To highlight one side of an object and make the subject "in contrast" with the opposite side, use side lighting as in example 1B. "Fill-in" illumination (example 1B with 2 lights) will eliminate these shadow areas.

**IMPORTANT
GET A
LIGHT METER!**

A light meter is essential in setting up TV Eye demonstrations with a minimum of effort. For satisfactory pictures, the TV Eye equipment requires approximately the same amount of light as is required for an ordinary camera in which Veri-

chrome or equivalent film is used with an exposure speed of 1/25 of a second. For \$15-\$18, you can get a light meter that will pay off in more impressive demonstrations and more sales—don't be without one!

OPTICAL DATA

The field sizes shown are the maximum possible with the Vidicon Camera and are larger than the lens manufacturer quotes because the picture area on the face of the Vidicon is larger than the frame size on 16 mm film. Width and height of fields are in feet.

For more detailed optical data, refer to the TV Eye Service Data.

LENS DATA

LENS FOCAL LENGTH	DISTANCE FROM CAMERA					
	5 Feet		10 Feet		25 Feet	
	Width	Height	Width	Height	Width	Height
13 mm	4.9	3.7	9.7	7.3	24.4	18.3
17 mm	3.7	2.8	7.5	5.6	18.7	14.0
25 mm (approx. 1")	2.5	1.9	5.0	3.7	12.5	9.3
50 mm (approx. 2")	1.25	.94	2.5	1.9	6.2	4.7
75 mm (approx. 3")	.83	.62	1.67	1.25	4.2	3.1
100 mm (approx. 4")	.62	.46	1.25	.94	3.1	2.3
6 inches	.41	.31	.82	.62	2.1	1.6

APPENDIX III

TECHNICAL SPECIFICATIONS

Equipment Designations

Camera Unit (less Vidicon).....	HC-1
Control Unit.....	HA-1
Camera Tube (Vidicon).....	6198
Control Cable (Not supplied—length as required).....	None

RCA Tube Complement

<i>Tube Used</i>	<i>Camera Chassis</i>	<i>Function</i>
(1) RCA 6198.....	1V4.....	Camera Tube
(2) RCA 6U8.....	1V1.....	1st & 2nd Video Amplifier
(3) RCA 6U8.....	1V2.....	3rd Video Amplifier & Sync Mixer
(4) RCA 6U8.....	1V3.....	R-F Oscillator & Modulator
IN34A.....	1CR1.....	D-C Restorer
IN34A.....	1CR2.....	Sync Clipper
IN34A.....	1CR3.....	D-C Restorer
<i>Control Chassis</i>		
(1) RCA 12AU7.....	2V2.....	Vertical Osc. & Output
(2) RCA 12AT7.....	2V3.....	Horizontal Osc. & Sweep Gen.
(3) RCA 12AT7.....	2V1.....	Vertical Sync & Horiz. Amp.
(4) RCA 6BQ6GT.....	2V4.....	Horizontal Output
(5) RCA 12AT7.....	2V5.....	Vert. Sweep Rect. & Cath. Follower
(6) RCA 0A2.....	2V6.....	Voltage Stabilizer
(7) RCA 6AS6.....	2V7.....	Relay Control
IN94 (2 req'd).....	2CR1, 2CR2.....	Voltage Doubler Rect.
RCA Stock		
No. 98727.....	2CR3.....	Bias Rectifier
IN34A.....	2CR4.....	Horiz. Sweep Rectifier

System Standards

Horizontal Sweep Frequency (Free running, nominal).....	15,750 kc.
Vertical Sweep Frequency.....	60 cps
Frame Frequency (Picture repetition rate).....	30 fps
Scan (Random interlacing, lines per second, maximum).....	525

Operating Requirements

Scene Illumination, Minimum.....	100 foot-candles
Ambient Temperature, Maximum.....	50°C (122°F)
Camera Cable, Maximum Length.....	500 feet
Camera Lens Mount.....	Std. 16 mm., Type "C"
Camera Base Mount.....	Screw, 1/4"-20 thread
Maximum Cable Length	
Camera to Control Unit to Receiver Monitor	
Using RG-11/U cable.....	2000 ft.
Using RG-59/U cable.....	1200 ft.

Output Rating

R-F Frequency Range (Choice: Channels 2-6).....	54-88 mc.
Voltage Output, Minimum.....	0.1 volt
Output Impedance.....	300 ohms

Power Supply Rating

115 volts a.c., single phase, 60 cycles.....	100 watts
Fuse Rating, Type 3AG.....	2 Amperes, Slow-Blow
Output Receptacle Rating.....	300 watts

Dimensions (Over-all)

Height 5 1/4 in.	Camera Unit Width 4 in.	Depth 11 3/8 in.
Height 7 7/8 in.	Control Unit Width 11 in.	Depth 8 1/4 in.

Weights (Approximate)

Camera Unit (less lens, cable).....	4 1/2 lbs.
Control Unit (less cable).....	18 lbs.

APPENDIX IV

**SERVICE AND
INSTALLATION OF TV EYE
AVAILABLE THROUGH RCA**

On an optional basis on your part the following service and installation is available through RCA:

1. One year's service including all parts, tubes and the vidicon with unlimited emergency calls during normal working hours (including Saturdays), excluding receivers attached to the chain. Annual rate—\$349.50.
2. Same as #1 above, but excluding vidicon. Annual rate—\$187.50.
3. A contract covering parts, tubes and the vidicon as above, but entitling the user to only one service call per year for check-up and adjustment. Additional service calls under this contract are made at the rate of \$9.95 per call regardless of length of time required for call. Annual rate—\$239.50.
4. Same as #3 above excluding vidicon. Annual rate—\$77.50.
5. Supervisory service for installation only. This service includes supervision of the installation of a TV Eye Camera and Control Unit by an RCA technician. Labor is performed by employees of the customer or your own technicians. The RCA technician will conduct a final test of the equipment. For each TV Eye installed this service is \$90.00 flat rate regardless of time.
6. The RCA Service Company also stands ready to make installations, or at least quote on complete installations, on the basis of individual quotations for each job.

Note: Prices subject to change without notice.

