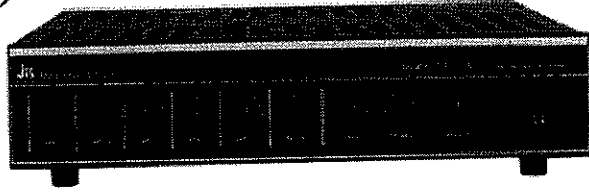
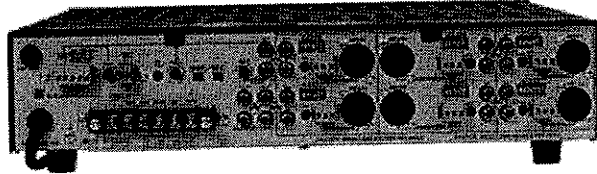


The all-new Master Series Amplifiers
Only available through J.W. Davis & Co,
the new Master Series commercial audio
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through the use of simple, user-friendly
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DA-30M, DA-60M, DA-120M



- 7 Major Application Interfaces
- 6 Switchable Mic/Aux Inputs
- 15 Special Signal Inputs
- 7 Signal Outputs
- Multiple Music-On-Hold Options
- 24 VDC Alternate Power Source
- 4-16 Ohm, 25 and 70.7 Volt Output's
- 30, 60 and 120 Watt Models Available



All this at a price comparable to that of
limited, single purpose amplifiers! **5 Year**

Warranty

[View User Manual...](#)

UHF WIRELESS MICROPHONE SYSTEM



DESCRIPTION

Setting ever higher standards in integrated wireless microphone systems with its 5000 Series wireless microphone systems, TOA provides a full range of wireless microphones optimized for both general and specific applications, all optimally compatible with accompanying tuner units and ancillary equipment.

With their even greater selection of microphone units, increased coverage area and cost-effectiveness, TOA 5000 Series wireless microphone systems offer completely reliable long-term operation in demanding heavy-use environments. This extends wireless microphone applications beyond the everyday, and extends coverage to applications such as aerobics classes and presentations or demonstrations where the microphone user is in constant motion.

Wireless Microphone Units

TOA's new line of wireless microphones comprises handheld vocal models WM-5270, WM-4200, WM-4210, the speech-use WM-4220, and the slim single-battery WM-5220, as well as lavalier model WM-5320, WM-4300, the WM-5320H headset model and the WM-5320A with a dedicated headset for aerobics and other active applications.

Tuner Units

All TOA 5000 Series UHF wireless microphone tuners utilize Phase Locked Loop (PLL) synthesis to deliver exceptional performance along with stability and reliability, minimizing oscillation frequency variations caused by ambient temperature variations. In addition, constant high-quality area coverage is ensured by incorporating TOA 250mA true diversity or 200mA/130mA space diversity circuitry, a usable frequencies scanning channel search function, a double super-heterodyne receiving system, and a squelch function for carrier, noise and tone. The tuner units comprise the WT-5800, WT-5805 and WT-4820 (2-channel tuner) rack-mounted units, and the WT-5810 twin rod antenna portable unit. The WT-5800 and WT-5805 provides 64 (4 x 16) channel banks of circuit frequencies, and the WT-5810 16 selectable frequencies.

FEATURES

Wireless Microphone Units

- There are different **dynamic and electret condenser microphones**.
- Up to **16 microphones can be used in the same area** without any interference problems.
- A **wide operating range** allows microphones to be used up to a maximum of 120 meters distance from the antenna units.
- **Extended battery life:** over 10 hours of continuous use at average temperatures.
- **Single battery operation** for reduced size and weight

Tuner Units

- TOA's proprietary **true diversity and space diversity technologies and algorithms** for constant area coverage.
- **Tone squelch function** automatically mutes output when the incoming signal strength goes below a settable signal strength level to prevent annoying noise.
- **Microphone sensitivity control** allows adjusting the input level to suit the user's voice level and to prevent overloading or distortion.
- **Auto mixing input function** makes it possible to connect one unit's AF input to the AF output of another unit.
- **Indication** of microphone's battery status
- A **channel check function** simplifies channel setting operations on wireless microphones used on multiple channels simultaneously.
- **Compander circuitry works** to minimize ambient noise.

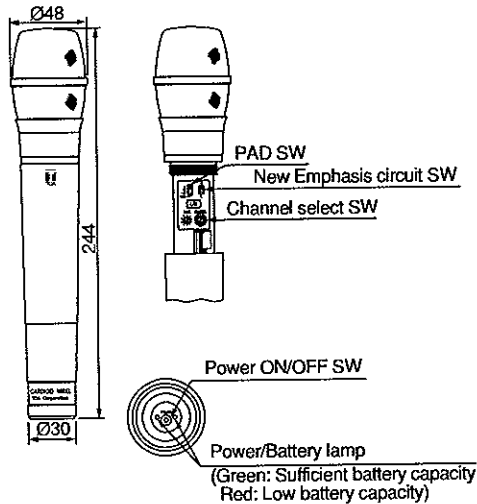
Ancillary Equipment

- Using **WD-4800**, a system allowing simultaneous use of up to 16 separate channels can be confirmed.



WM-5270_{-E/F}

Handheld (Vocal) Microphone



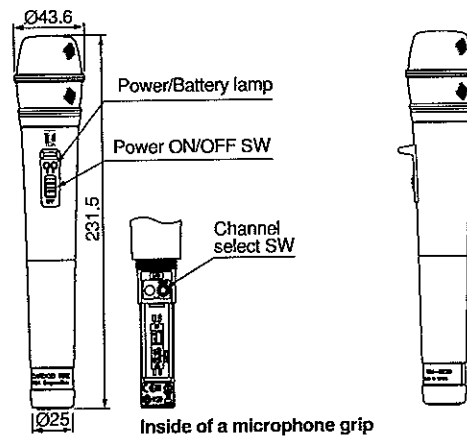
- Operating range: 3m – 120m
- Dynamic cardioid microphone element designed for vocal use
- Four 16-channel banks of circuit frequencies
- Maximum input level: 142 dB SPL (Can be set from 130dB to 142dB by Pad switch)
- Dynamic range: over 95 dB
- Single AA battery operation for more compact and lightweight body
- Low-battery indicator (Sufficient power/Green, Low battery/Dimming green, Empty/Red)
- Built-in antenna

Microphone Element	Dynamic microphone unit: Cardioid
Frequency Range	636–666 MHz -F Band or 668–698 MHz -E Band, UHF*
Channel Selectable	64 Selectable frequencies (international may vary)
RF Carrier Power	Under 50 mW
Tone Frequency	32.768 kHz
Oscillator	PLL synthesizer
Maximum Input Level	142 dB SPL
Maximum Deviation	± 40 kHz
Battery	LR6 (AA)
Battery Life	Over 10 hours (alkaline)
Indicator	Power/Battery indicator
Antenna	Built-in type
Operating Temperature	-10°C to $+50^{\circ}\text{C}$
Finish	Dark gray
Dimensions	$\varnothing 48 \times 244$ mm
Weight	340 g (with battery)
Accessory	Stand adapter x 1, Screw driver x 1, Storage case x 1, Rolling stopper x 1

*Frequency range may vary by area.

WM-5220_{-E/F}

Handheld (Speech) Microphone



- Operating range: 3m – 120m
- Electret condenser cardioid microphone element
- 16 selectable channel frequencies
- Maximum input level: 126 dB SPL
- ON/OFF switch prevents the microphone from rolling
- Single AA battery operation for more compact and lightweight body
- Low-battery indicator (Sufficient power/Green, Low battery/Dimming green, Empty/Red)
- Built-in antenna

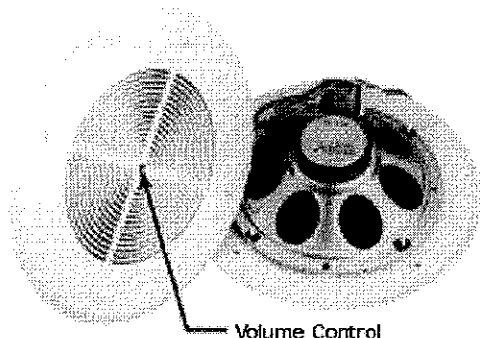
Microphone Element	Electret condenser unit: Cardioid
Frequency Range	636–666 MHz -F Band or 668–698 MHz -E Band, UHF*
Channel Selectable	16 CH
RF Carrier Power	Under 50 mW
Tone Frequency	32.768 kHz
Oscillator	PLL synthesizer
Maximum Input Level	126 dB SPL
Maximum Deviation	± 40 kHz
Battery	LR6 (AA)
Battery Life	Over 10 hours (alkaline)
Indicator	Power/Battery indicator
Antenna	Built-in type
Operating Temperature	-10°C to $+50^{\circ}\text{C}$
Finish	Resin, rubber coating
Dimensions	$\varnothing 43.6 \times 231.5$ mm
Weight	180 g (with battery)
Accessory	Stand adapter x 1, Screw driver x 1, Storage case x 1

*Frequency range may vary by area.

Factory Assembled 8" Speaker Transformer, Volume Control and Baffle Combinations

SPK
Specs
↓

- Factory assembled, then tested for assurance of Fourjay's high quality standards.
- Whitehead mounting screws furnished, phillips head for electric drivers.
- 9-1/8" diameter circle mounting pattern for fast, easy, labor saving installation with Fourjay mounting rings, bridges and enclosures, including UL listed "Plenum Connection." See back page.



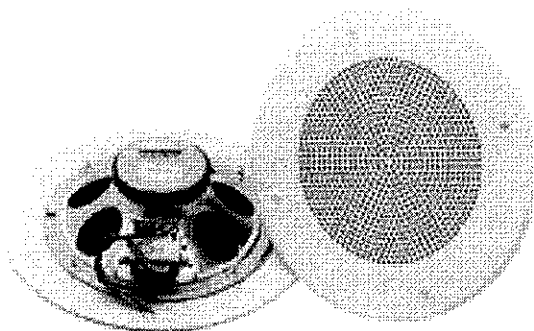
CR8 Series

- Contemporary designed round flush-mount speaker baffle.
- Compact 11" diameter is much smaller and less conspicuous than most 8" speaker baffles.
- Ceiling White, non-glare texture with contoured edge matches baffle to mounting surface.
- Molded of UV stabilized, high impact polystyrene thermoplastic.
- Volume control models have a recessed screwdriver adjustable 50 ohm wire wound potentiometer. Low profile push-in knob provided in kit.

CR8 BAFFLE MODELS	SPEAKER - TRANSFORMER MODELS and SPECIFICATIONS				WITH VOLUME CONTROL
ST4-CR8	Q88D5	5 oz. dual cone	T427	4 watts; 25 & 70 V	ST4P-CR8
SDT4-CR8	Q88D10	10 oz. dual cone	T427	4 watts, 25 & 70 V	SDT4P-CR8
ST5-CR8	Q88D5	5 oz. dual cone	T570	5 watts, 70 V	ST5P-CR8
SDT12-CR8	Q88D10	10 oz. dual cone	T127	12 watts, 70 V	SDT12P-CR8
SCT12-CR8	Q88C10	10 oz. coaxial	T127	12 watts, 70 V	SCT12P-CR8

Other CR8 Series Baffle, Speaker, Transformer Assembly combinations are available as special order models: ST2-CR8, SDT2-CR8, SCT2-CR8, SCT4-CR8, SDT5-CR8, SCT5-CR8, SDT16-CR8, SCT16-CR8. Also available as models with 50 ohm volume control and as models with Fourjay CR8WX Flamex baffle. Call for details.

RE8 Series



- The compact 11" diameter and computer generated hole pattern allows for a much less conspicuous installation.
- A specially textured non-glare ceiling white powder coat finish, blends with ceiling materials.
- No visible speaker mounting screws.
- Fabricated of corrosion resistant 22-gauge electro-galvanized steel.
- Construction and design comply with UL1480 ceiling baffle requirements.
- Volume control models have a recessed screwdriver adjustable 50 ohm wire wound potentiometer. Low profile push-in knob provided in kit.

RE8 BAFFLE MODELS	SPEAKER - TRANSFORMER MODELS and SPECIFICATIONS				WITH VOLUME CONTROL
ST4-RE8	Q88D5	5 oz. dual cone	T427	4 watts; 25 & 70 V	ST4P-RE8
SDT4-RE8	Q88D10	10 oz. dual cone	T427	4 watts, 25 & 70 V	SDT4P-RE8
ST5-RE8	Q88D5	5 oz. dual cone	T570	5 watts, 70 V	ST5P-RE8
SDT12-RE8	Q88D10	10 oz. dual cone	T127	12 watts, 70 V	SDT12P-RE8
SCT12-RE8	Q88C10	10 oz. coaxial	T127	12 watts, 70 V	SCT12P-RE8

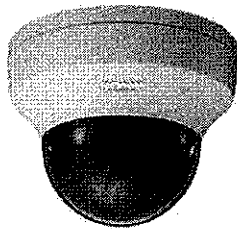
Other RE8 Series baffle, speaker, transformer assembly combinations are available as special order models: ST2-RE8, SDT2-RE8, SCT2-RE8, SCT4-RE8, SDT5-RE8, SCT5-RE8, SDT16-RE8, SCT16-RE8. Also available as models with 50 ohm volume control. See component specifications. Call for details.



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SSCCD45 Minidome Color Camera with 540 Lines

\$380.00 U.S. List Price

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Close-up view

The SSC-CD45 is a compact and discreet dome camera designed for indoor security and surveillance monitoring applications. Sony's SuperHAD imager and latest DSP technology offers 540 TV lines resolution.

Highlights:

- Compact and Discreet
- 1/3 Type Interline Transfer CCD with Super HAD Technology
- DSP technology
- 540 TV lines resolution
- 380,000 Effective Pixels
- Minimum Illumination 0.9lx
- Integrated 2.8 - 10 mm F1.3 vari-focal DC auto iris
- On/Off Switchable CCD Iris
- On/Off Switchable Backlight Compensation
- Turbo Off Switchable Auto Gain Control
- ATW - Pro/ATW White Balance Mode
- NTSC Signal System
- Internal A/C Line Lock
- AC24V or DC12V

Features

Benefits:

Super HAD CCD	The SSC-CD45 incorporates a 1/3-type Super HAD CCD that delivers high sensitivity levels and high picture quality for a number of monitoring applications. The minimum illumination of the camera is 0.9 lx at F1.3.
High Horizontal Resolution of 540 TV lines	The high-quality CCD imager, in combination with the camera's state-of-the-art DSP technology, produces a high horizontal resolution of 540 TV lines for amazingly clear and detailed images.
Powerful 3.6x Zoom, Vari-focal Lens	The camera comes equipped with a 3.6x zoom, vari-focal lens that covers an extremely wide range of viewing angles from 100.8° (wide-angle) to 27.2° (telephoto). This feature provides installation flexibility for a number of different applications and locations.
Wall- or Ceiling-mountable/Easy Viewing-angle Adjustment	The camera can be easily wall- or ceiling-mounted, for installation flexibility. Also, in addition to the BNC video output on the rear of the camera, a secondary video output (RCA phono jack) is provided on the front of the camera. This allows installers to monitor images during installation for accurate and quick adjustment of the focus and viewing-angle.
Ball-Joint Lens Mount Technology	With the Sony patented Ball-Joint Lens Mount mechanism incorporated into the vari-focal lens of the camera, the lens can be rotated freely in any direction. Unlike conventional cameras, it takes only one action to adjust the pan and tilt angles, allowing for quick and easy adjustment of the camera's viewing angle during installation.
Backlight Compensation (BLC)	Unwanted backlight can often cast a shadow in front of the subject of an image, making it appear dark to the camera. The BLC function incorporated in the camera automatically compensates for such conditions, making the subject more visible on the monitor.
Automatic Gain Control (AGC)	The camera is equipped with an advanced AGC function. This automatically boosts the camera gain up to 24 dB, allowing operators monitoring the image to distinguish the subject more easily in low light conditions.
Auto Tracing White Balance (ATW)/ATW Pro	ATW is a feature that automatically adjusts the camera's white balance to adapt to changing light conditions. With ATW, the camera can compensate for a color temperature range of between 2,000 K and 10,000 K, allowing for operation under a variety of lighting conditions, including special light sources such as a sodium vapor lamp. When operating under natural light, incandescent lamps, or fluorescent light sources, ATW Pro - which compensates for a color temperature range of between 2,500 K and 6,000 K - is ideal for reproducing color images closer to what we see with our eyes.
AC Line Lock/Internal Line Lock	The camera features both an AC line lock and an internal line lock for synchronization. The AC line lock is ideal in multi-camera operations, as it synchronizes all cameras connected to the same power line. This prevents the video from rolling vertically when switching between cameras. The vertical phase can be adjusted by ±90 degrees.
Flexible Power Operation	The camera offers a choice of two types of power: 24 V AC or 12 V DC. The camera automatically adapts to whichever power source is used, making installation fast and effective.

Analog Video Output Specifications

Detail:

ARC-19254/ARC-19258/ARC-19256

4/8/16 CH H.264 MULTIPLEX DVR



- H.264 compression ideal for saving HDD space
- Real-time live display
- 4/8/16 channel DVR: 120FPS half-D1 recording
- Live display, record, backup, playback and network access at the same time
- Control methods: front panel, PS/2 mouse, IR remote controller, client viewer
- 1 channel audio recording and playback
- supports 2 SATA HDDs
- supplies 1 DVD writer (optional)
- Pan / Tilt / Zoom camera control
- Data backup: USB devices, DVD±RW(optional), network download
- Event triggered with E-mail notification: motion detection, alarm, video loss
- Internet Explorer supported for live display and playback
- Digital watermark proof
- Multi-language OSD: English / Polish / Spanish / Russian / Traditional Chinese / French / Turkish / German / Italian / Portuguese

 **Enlarge**

 **Catalog**

Model No.	ARC-19254/ARC-19258/ARC-19256
Video System	NTSC/PAL auto detection
Video Input	4 CH BNC/8 CH BNC/16 CH BNC
Video Output	1CH BNC or VGA
SPOT Output	1CH BNC
Audio Input	1CH RCA
Audio Output	1CH RCA
Sensor	4/8/16 inputs, 1 outputs
RS-485	Pan/Tilt/Zoom camera
Mouse	PS/2 mouse

IR Remote Controller	YES
HDD Support	SATA HDD x 2 (Max. 1TB EA)
DVD Writer	optional
Display Division	1,4
Digital Zoom	2X
Video Compression	H.264
Resolution	720x480, 720x240, 360x240 (NTSC) 720x576, 720x288, 360x288 (PAL)
Frame Rate	60, 120, 120 fps (4 CH) / 60, 120, 240fps (8, 16 CH) (NTSC) 50, 100, 100fps (4 CH) / 50, 100, 200fps (8, 16 CH) (PAL)
Quality	Fine, Normal, Low
Record Mode	Manual, Schedule, Event(motion detection/sensor/video loss)
Pre Alarm Recording	0~5 seconds
Post Alarm Recording	0~60 seconds
Watermark Proof	YES
Search Mode	Calendar, Time, Event, Block, File, Bookmark
Backup Mode	TCP/IP, SMTP, HTTP, DHCP, DDNS
Firmware Update	USB 2.0 device / Network
Dimension (WxHxD)	16.93 in x 2.76 in x 14.17 in (430mm x 70mm x 360mm)
Power Source	DC12V