



Z-FV200-AS Series Emergency PA System



Features

- Z-FV200EV-AS loaded with pre-recorded voice alarm messages (Alert, Evacuation, False Alarm, Clear) for emergency broadcasts
- Link fire alarm system to Z-FV200EV-AS to broadcast automatic announcement during emergency
- Highest priority broadcast is given to announcements made via Z-FV200EV-AS's fireman microphone. Next priority broadcast is given to timer, paging, and remote microphone on Z-FV200PP-AS
- 4 additional control output on Z-FV200EV-AS to connect to external devices (e.g. attenuator, led indicator etc)
- 4 additional Mic/Line and 2 Aux input on Z-FV200PP-AS
- Select interrupted or non-interrupted BGM with Z-FV200PP-AS
- Choice of amplifiers: Z-FV224PA-AS (240W) or Z-FV248PA-AS (480W)
- Connect up to 4 remote microphones (RM-200M) with Z-FV200RF-AS. Maximum 4 remote extension units (RM-210) per remote microphone
- Z-FV200RF-AS can control up to 50 speaker lines and all-zone calls
- Z-FV200CA-AS enables automatic changeover to a working standby amplifier when the duty amplifier becomes faulty
- Z-MP210-AS is built in with a speaker and LED display, allowing up to 10 amplifiers output can be selected and monitored
- Zone selector enables zone selection of music or paging up to 50 zones. Available models, Z-SS1010, Z-SS1010R and Z-SS2010





Z-FV200EV-AS Emergency Message Panel	
Power Source	Usable power supply unit : Z-FV200PS-AS 24 V DC (operating range : 19.5 - 27 V), M3 screw terminal
Current Consumption	250 mA
Emergency Announcement	Alert (repeated continuously), Evacuation (repeated continuously), False (repeated continuously), and Clear (repeated continuously)
Emergency Warning Language	Indonesian (default)
Audio Input	Fireman's microphone: -55 dB*, 600 Ω, unbalanced, XLR-3P connector
Audio Output	EV : -20 dB*, unbalanced, Removable terminal block (2 pins)
Control Input	FA Input : No-voltage make contact input, Open voltage : 24 V DC, Short-circuit current: Under 5 mA, Removable terminal block (2pins)
Control Output	Control output : Relay contact output x 4, rated voltage : 24 V DC, Removable terminal block (2 pins)
Frequency Response	20 Hz - 20 kHz, ±3 dB, 1 kHz
Distortion	Under 1% (1 kHz, rated output)
Wave Format	44.1 kHz sampling frequency, 16 bit PCM (monaural)
Recording System	USB data transfer from rear panel
Max. Recording Time	6 minutes (use built in memory)
Operation	Alert announcement button, Evacuation announcement button, False announcement button, Clear announcement button, Stop announcement button
LED Indicator	Power (Green), Fire (Red), Alert announcement (Green), Evacuation announcement (Green), False announcement (Green), Clear announcement (Green), USB (Green)
Operating Temperature	0 °C to +40 °C
Operating Humidity	Under 90% RH (no condensation)
Finish	Front Panel : Aluminum, black, alumite
Dimensions	482 (W) X 100 (H) X 396.7 (D) mm
Weight	4.3 kg (with Microphone)
Accessory	Removable terminal plug (2 pins) x 7, Fireman's Microphone x 1, Instruction Manual x 1

* 0 dB = 1 V
- Specification measured at DC 24 V



Z-FV200PP-AS Pre-Amplifier Mixer Panel	
Power Source	Usable power supply unit : Z-FV200PS-AS 24 V DC (operating range : 19.5 - 27 V), M3 screw terminal
Current Consumption	110 mA
Audio Input	EV : -20 dB*, 600 Ω, unbalanced, removable terminal block (2 pins) Timer : -20 dB*, 600 Ω, unbalanced, removable terminal block (2 pins) Paging : -60/-20 dB* (selectable), 600 Ω, balanced, removable terminal block (3 pins) RF Link : 0 dB*, 600 Ω, unbalanced, removable terminal block (2 pins) MIC/LINE 1 - 4 : -60/-20 dB* (selectable), 600 Ω, balanced, removable terminal block (3 pins) AUX 1 - 2 : -20 dB*, 10 kΩ, unbalanced, RCA Jack
Audio Output	Priority output : 0 dB*, balanced, removable terminal block (3 pins) BGM output : 0 dB*, balanced, Removable terminal block (3 pins)
Control Input	Timer : No-voltage make contact input, open voltage : 24 V DC, short-circuit current : Under 5 mA, removable terminal block (2 pins) Paging : No-voltage make contact input, open voltage : 24 V DC, short-circuit current : Under 5 mA, removable terminal block (2 pins) EV : No-voltage make contact input, open voltage : 24 V DC, short-circuit current : Under 5 mA, removable terminal block (2 pins)
Control Output	All Call : Contact Switch (Normally Open), removable terminal block (2 pins)
Frequency Response	50 Hz - 15 kHz, ±3 dB, 1 kHz
Muting	MIC/LINE 1 : Mutes other input signals (Mic/Line 2 - 4, AUX 1 - 2) by 0 - 30 dB attenuation
Phantom Power	MIC/LINE 1 (selectable) (+21 V DC)
Priority Control	Fireman's microphone > EV > Timer > Paging > Remote microphone > Mic / Line 1 > Mic / Line 2 - 4 & AUX 1 - 2
Tone Control	Bass : -10 dB at 100 Hz, +10 dB at 100 Hz (for INPUT BGM) Treble : -10 dB at 10 kHz, +10 dB at 10 kHz (for INPUT BGM)
S/N Ratio	Over 60 dB
Distortion	Under 1% (1 kHz, rated output)
LED Indicator	Power (Green)
Operating Temperature	0 °C to +40 °C
Operating Humidity	Under 90% RH (no condensation)
Finish	Front Panel : Aluminum, black, alumite
Dimensions	482 (W) X 88.4 (H) X 353.3 (D) mm
Weight	4.2 kg
Accessory	Removable terminal plug (2 pins) x 7, removable terminal plug (3 pins) x 8, Instruction Manual x 1

* 0 dB = 1 V
- Specification measured at DC 24 V



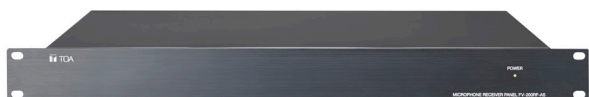
Z-FV224PA-AS Power Amplifier	
Power Source	AC : 220 - 230 V AC, 50/60 Hz DC : 24 V DC (operating range : 19.5 - 27 V) M4 screw terminal, distance between barriers : 12 mm
Power Consumption	AC at rated output : 565 W (condition : AC230V) AC at no signal : 22 W IEC60065 : 245 W
Current Consumption	DC at rated output : 15 A (condition : DC27V) DC at no signal : 0.3 A IEC60065 : 5.8 A
Rated Output	240 W
Input	2 parallel inputs, 0 dB*, 20 kΩ, balanced, removable terminal plug (3 pins) Input module VP-200VX (Option)
Output Impedance	21 Ω (70 V), 42 Ω (100 V)
Speaker Output	M4 screw terminal, distance between barriers : 12 mm
Control Output	Fault output : Make : Normal, Break : Error or Power Off
S/N Ratio	Over 60 dB
Total Harmonic	Under 1% (1 kHz, 1/3 rated output)
Distortion Frequency Response	80 Hz - 15 kHz, ±3 dB, 1 kHz
Ventilation	Fan cooling
Led Indicator	Power (Green), Signal (Green), Peak (Red), Fault (Red)
Operating Temperature	0 °C to + 40 °C
Operating Humidity	Under 90% RH (no condensation)
Finish	Panel : Aluminum, black, alumite
Dimensions	482 (W) x 88.4 (H) x 337.2 (D) mm
Weight	13.4 kg
Accessory	Removable terminal plug (3 pins) x 3, Instruction manual x 1
Option	VP-200VX input module

* 0 dB = 1 V
- Specification measured at AC 230V AC, 50Hz



Z-FV248PA-AS Power Amplifier	
Power Source	AC : 220 - 230 V AC, 50/60 Hz DC : 24 V DC (operating range : 19.5 - 27 V) M4 screw terminal, distance between barriers : 12 mm
Power Consumption	AC at rated output : 1110 W (condition : AC230V) AC at no signal : 44 W IEC60065 : 480 W
Current Consumption	DC at rated output : 30 A (condition : DC27V) DC at no signal : 1.0 A IEC60065 : 10.9 A
Rated Output	480 W
Input	2 parallel inputs, 0 dB*, 20 kΩ, balanced, removable terminal plug (3 pins) Input module VP-200VX (Option)
Output Impedance	10 Ω (70 V), 21 Ω (100 V)
Speaker Output	M4 screw terminal, distance between barriers : 12 mm
Control Output	Fault output : Make : Normal, Break : Error or Power Off
S/N Ratio	Over 60 dB
Total Harmonic	Under 1% (1 kHz, 1/3 rated output)
Distortion Frequency Response	80 Hz - 15 kHz, ±3 dB, 1 kHz
Ventilation	Fan cooling
Led Indicator	Power (Green), Signal (Green), Peak (Red), Fault (Red)
Operating Temperature	0 °C to + 40 °C
Operating Humidity	Under 90% RH (no condensation)
Finish	Panel : Aluminum, black, alumite
Dimensions	482 (W) x 132 (H) x 333.2 (D) mm
Weight	18.5 kg
Accessory	Removable terminal plug (3 pins) x 3, Instruction manual x 1
Option	VP-200VX input module

* 0 dB = 1 V
- Specification measured at AC 230V AC, 50Hz



Z-FV200RF-AS Remote Microphone Receiver Panel

Power Source	Usable power supply unit : Z-FV200PS-AS 24 V DC (operating range : 19.5 - 27 V), M3 screw terminal
Current Consumption	230 mA
No. of Zone Groups in Speaker Selector	Max. 10 (Z-SS2010, Z-SS1010R)
Priority Control for Remote Microphone	Last-in-1st-out priority / 1st-in-1st-out priority / individual priority / selectable
Control Input	All call : 1 input, No-voltage make contact input, open voltage 24V DC, short-circuit current : Under 5 mA, removable terminal block (2 pins)
Control Output	SS Control : 55 outputs, open collector output, removable terminal block (6 pins)
Chime	Ascending 4-note tone
RF Link Audio Output	0 dB*, unbalanced, removable terminal block (2 pins)
RM Link Usable Remote mic No. of Connectable to Remote Mic Maximum Cable Distance	RM-200M Remote microphone extension unit : RM-210 (Max. 4 units) Max. 4 x RM-200M Total 800 m
S/N Ratio	Over 60 dB
Distortion	Under 1% (1 kHz, rated output)
LED Indicator	Power (Green), Error (Red)
Operating Temperature	0 °C to +40 °C
Operating Humidity	Under 90% RH (no condensation)
Finish	Front Panel : Aluminum, black, alumite
Dimensions	482 (W) X 44 (H) X 320 (D) mm
Weight	2.8 kg
Accessory	Removable terminal plug (2 pins) x 2, removable terminal plug (3 pins) x 1, removable terminal plug (6 pins) x 10, Instruction Manual x 1

* 0 dB = 1 V

- Specification measured at DC 24 V



Z-FV200PS-AS Power Supply Panel

Power Source	220 - 230 V AC, 50/60 Hz 24 V DC (operating range : 19.5 - 27 V), M3 screw terminal
Power Consumption	160 W (275 VA) at rated power output (230 V AC operation)
Output	AC Operation : 24 V DC \pm 1, 5A (total) DC Operation : Voltage lowering DC input voltage approx. by 2 V, M4 screw terminal
Display	AC Power (Green), AC Power (Orange)
Operating Temperature	0 °C to +40 °C
Operating Humidity	Under 90% RH (no condensation)
Finish	Front Panel : Aluminum, black, alumite
Dimensions	482 (W) X 44 (H) X 335 (D) mm
Weight	3.2 kg
Accessory	Power cable (YA-301 or YA-313)



Z-FV200CA-AS Amplifier Changeover Panel

Power Source	24 V DC (operating range : 21.6 - 26.4 V), M3 screw terminal
Current Consumption	240 mA
No. of Input Channel	6 Duty Amplifier, 1 Standby Amplifier
No. of Output Channel	6 Output
Failure Detection	Fault Buzzer with buzzer control switch
LED Indicator	Power (Green), Changover (Orange), Fault / Buzzer Control (Red)
Operating Temperature	0 °C to +40 °C
Operating Humidity	Under 90% RH (no condensation)
Finish	Front Panel : Aluminum, black, alumite
Dimensions	482 (W) X 44 (H) X 343.8 (D) mm
Weight	2.6 kg
Accessory	Removable terminal plug (2 pins) x 3, removable terminal plug (8 pins) x 4



RM-200M Remote Microphone

Power Source	24 V DC (operating range: 14 - 28 V DC) Power input jack : Non-polarity type Usable power input plug ^{*1} : Outer diameter ϕ 5.5 mm, inner diameter ϕ 2.1 mm, length 9.5 mm
Current Consumption	100 mA or less
Audio Output	0 dB ^{*2} , 600 Ω , balanced
Frequency Response	100 Hz - 20 kHz
Distortion	1% or less
S/N Ratio	60 dB or more
Microphone	Unidirectional electret condenser microphone
Function Key	Key numbers : 11 Function : Selecting zone from 1-10 and select "All Call"
Volume Control	Microphone volume control
Connection and Cable Connector	Category 5 Shielded Twisted-Pair straight cable, RJ45 connector
Finish	ABS resin, blueish gray (PANTONE 538 or its equivalent)
Dimensions	190 (w) x 76.5 (h) x 215 (d) mm (Gooseneck microphone excluded)
Weight	750 g
Accessory	Link cable (3 m) x 1
Option	Wall-Mounting Bracket : WB-RM200

^{*1} Use AC adapter AD-246 or equivalent

^{*2} 0 dB = 1 V

RM-210 Remote Microphone Extension

Current Consumption	20 mA max. (in terms of RM-200M's DC power input)
Connection	Connection to RM-200M by way of dedicated cable
No. of Function Keys	10
Finish	ABS resin, blueish gray (PANTONE 538 or its equivalent)
Dimensions	110 (w) x 76.5 (h) x 215 (d) mm
Weight	350 g
Accessory	Extension cable x 1, Linkage bracket A x 2, Linkage bracket B x 1, Screw for linkage bracket x 12
Option	Wall-Mounting Bracket : WB-RM200



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Specifications are subject to change without notice.