

CHALLENGER 1000

Wireless Portable Sound System



Spec. of PA System

Output Power	75W(RMS)4Ω · 200W(music)
Speaker	10" full range with tweeter
Power Supply	90-260V(150W) switching power supply
Rechargeable Battery	12V 4.5AH x 2pcs
Distortion	< 0.5%
Frequency Response	50Hz - 20KHz ± 3dB
Inputs	Mic in / Line in (R/L)
Outputs	Active out / Line out (R/L) / SPKR out
Wireless Modules	(UHF 600-900MHz / VHF 160-260MHz) x 2 pcs
Cable Microphone	Chiayo or any compatible brand
Wireless Microphone	Handheld / Lavalier / Headset types
Charging Time	about 10 hours
Operating Time	3 hours in music · >6 hours in speech
Dimension (mm)	500(H) x 350(W) x 300(D)
Weight (kg)	21
Color	Black

Spec. of Wireless Mic System

Band	UHF	VHF
Frequency Range	600-900 MHz	160-260 MHz
Frequency Stability	within ±0.005%	within ±0.005%
Peak Deviation	±56KHz	±15KHz
Dynamic Range	> 110dB	> 110dB
S/N Ratio	> 105dB	> 105dB
T.H.D.	< 0.5%	< 0.5%
Squelch Circuitry	PILOTONE	PILOTONE
Frequency Response	50Hz - 20KHz ± 3dB	50Hz - 20KHz ± 3dB
Receiver Module	SDR-6216m / SDR-6116m	SDR-216M
No. of Frequencies	16	16

Spec. of UHF Mics

Model	SQ-5016	SQ-1016	SQ-916	SQ-816	SQ-316	SQ-216
Transmission Power	< 35mW					
Batteries Used	AA x 2	AA x 2	9V x 1	AA x 3	9V x 1	AA x 3
Operating Time (AKLN)	12 hours	12 hours	12 hours	16 hours	12 hours	16 hours
Dimension	Φ46 x 240	Φ46 x 240	Φ50 x 260	Φ45 x 240	Φ50 x 260	Φ45 x 240
Model	SM-5016	SM-1016	SM-916	SM-816	SM-316	SM-216
Transmission Power	< 35mW					
Batteries Used	AA x 2	AA x 2	9V x 1	AA x 3	9V x 1	AA x 3
Operating Time (AKLN)	12 hours	12 hours	12 hours	16 hours	12 hours	16 hours
Dimension	100 x 66 x 24	100 x 66 x 24	98 x 66 x 22.5	120 x 67 x 26	98 x 66 x 22.5	120 x 67 x 26

Spec. of VHF Mics

Distributor



United States Patent No. 6,915,962

CHALLENGER



Challenger 1000 series is a multi-function, multi-purpose, all-in-one compact and powerful portable sound system. It comes complete with cassette recorder / CD player Digital Recorder Player.

The speaker system consists of a 10" full range speaker with a high frequency tweeter.

This unit is powered by a switch mode 90-260V AC power supply and two heavy duty, maintenance-free lead-acid rechargeable batteries.

The whole system could be operated with either AC or batteries.

Parts & Functions



▲ CD/Digital player with USB input (STANDARD)



▲ Tape Deck

- Playback and record functions.
- Variable tape speed control.
- Auto Reverse function.
- APSS (Automatic Program Search) Tape Counter



▲ CD/Digital player with USB input & Pitch control

- Disc loading : Front loading
- With remote control
- Supply voltage: DC 12V (10-14V)
- Power consumption : Within 5W
- Dimensions : 160mm(W) x 168.2mm(D) x 68.5mm(H)
- Weight (approximate) : 1.1kg



- ▲ Digital Recorder Player :
 - Equipped memory: 128 MB NAND flash memory
 - SD card memory slot
 - USB plug type: USB 1.1
 - Recording sample rate: 44.1KHz 128Kbps
 - Impedance: 10K ohms
 - Output level: 1 V +/- 2dB (1KHz/0dB)
 - Power request: +12Vdc / 500mA
 - Current consumption: < 350mA
 - Operating system: Window 98 , ME , 2000 , XP



▲ Inputs: MIC IN x 1, LINE IN



▲ SDR-6200m (100 Channels) ▲ SDR-6216m (16 Channels)



▲ SDR-6116m (16 Channels) ▲ SDR-216M (16 Channels)

▲ Slots for two plug-in receiver modules.

- Modules available are :
 - 100 channel receiver.
 - 16 channel receiver.
 - UHF PLL type
 - VHF PLL type
 - Separate receiver volume control.

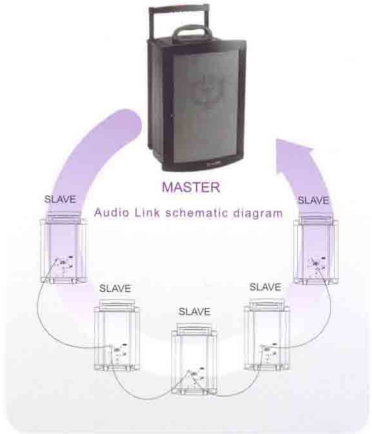
▲ Neutrik XLR / Phono Combo connector

- (Neutrik XLR / Phono Combo connector)
 - Outputs: LINE OUT, ACTIVE OUT, EXT, SPKR
 - Vol. Controls: MIC IN, Tape, Line, Bass/Treble, Master
 - 90-260 V AC (150W) Switching Power Supply built-in.
 - External Speaker connection with Speaker OUT
 - Power ON/OFF switch
 - Voice Priority ON/OFF switch
 - Battery charging status indicator

Audio Link

- 90 - 260 V AC switch mode power supply.
- Rugged and light weight Aluminium enclosure.
- 10" full range speaker with high frequency tweeter.
- 24-32V DC supply from two built-in maintenance-free 12V / 4.5AH lead acid type rechargeable batteries.
- Slots for choice of two UHF PLL synthesized true diversity / diversity type receiver modules.
- One Neutrik XLR / Phono combo connectors as wired microphone input.
- Outputs: LINE OUT, ACTIVE OUT.
- Controls : MIC IN Vol, Tape, Line Vol, Bass, Treble, Master Vol,
- Line in & out RCA jack.
- Improved 2-step charging circuitries.
- Voice Priority circuitry.
- Integrated preamplifier, mixer and amplifier circuitry.
- Individual volume control for wired and wireless microphones.
- Audio Link Master / Slave circuitry.
- Integrated retractable 2-stage trolley and wheels.
- Versions: CD / Digital Player with USB-interface & Cassette Recorder.
- CD / Digital player with USB-interface & Digital Recorder.

- The CD player can be controlled from both front and rear side by its remote control.
- An anti-scrape band on the front downside edge is designed to avoid any defacement during movements.
- External speaker connection with Speaker OUT.
- Battery charging status indicator.



Audio Link allows the inter-connection of the Challenger 1000 unit (always in MASTER mode) with up to 20 SLAVE units to set up a large network of amplified speakers. To reach this application, the MASTER unit with the audio sources (wireless mic, cassette or CD) is connected to the SLAVE unit via the ACTIVE OUT connector. The ACTIVE OUT of the SLAVE is then connected to the ACTIVE IN of the next SLAVE and so on if more SLAVE units are required.

Expandable & Flexible : The Challenger can work as a single unit or be expanded to a large network of amplified speakers for crowds up to 5000 or more.

Accessories



▲ MC-15 Uni-directional Lavalier Microphone Audio-Technica (Japan)



▲ MC-16 Uni-directional Lavalier Microphone (CHIAYO)



▲ MC-17 Uni-directional Lavalier Microphone (CHIAYO)



▲ MC-36 Omni-directional Lavalier Microphone (Japan)



▲ MC-520 Omni-directional Lavalier Microphone (Switzerland)



▲ MC-70 Uni-directional Headset Microphone (USA)



▲ MC-72 Uni-directional Headset Microphone (CHIAYO)



▲ MC-73 Uni-directional Headset Microphone Audio-Technica (Japan)



▲ MC-745 Uni-directional Headset Microphone (Switzerland)



▲ MC-75 Uni-directional Neckloop Microphone (CHIAYO)



▲ MC-76 Uni-directional Headset Microphone (Switzerland)



▲ MC-85 Uni-directional Condenser Microphone Module (CHIAYO)



▲ MC-48C Dynamic Microphone Module (Japan)



▲ CY-62A Dynamic Microphone Module (CHIAYO)



▲ CY-75 Dynamic capsule with shock-proof suspension for no-handling noise operation.(CHIAYO)



▲ 12W0011 Rechargeable Battery (12V / 4.5Ah)



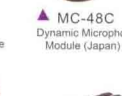
▲ NEW High-efficiency Rechargeable Battery (12V / 5Ah)



▲ HC-37 / HC-39 (for 2 AA) / (for 9V) Beltpack Transmitter Charging Station



▲ HC-30 Handheld Transmitter Charger for 2 AA battery



▲ HP-20 Carrying bag for mic / accessories



▲ BP-10 Carrying bag for mic / accessories



▲ CC-11 Carrying Case for Accessories



▲ DC-40 Dust Cover for Challenger



▲ ST-50 Tripod Stand



▲ ST-51 Wind-up Tripod Stand



▲ CHIAYO Carrying Case for Accessories



▲ DC-40 Dust Cover for Challenger



▲ ST-50 Tripod Stand



▲ ST-51 Wind-up Tripod Stand

