AM-FM Tuner/CD & MP3 Player with Mixer/PreAmp
RCD350P

Overview

Dukane AM-FM Tuner/CD and MP3 Player with Mixer/PreAmp is an auxiliary music and sound source for paging and intercom systems. It can be installed in a standard 19 inch rack or as a desktop unit by removing the rack mounting hardware.

Application

Designed for use with Dukane StarCall and MCS350 Administrative Communications Systems, these units provide a single channel output from one or all five inputs. A mixer/preamp section selects and/or mixes up to four external inputs and one internal source. The preamp section is equipped with a master gain control and output level LED indicator. A monitor speaker and volume level control are provided for input selection, cueing, and level adjustment.

A master on/off switch with indicator controls unit power. A priority enable circuit allows giving one input priority over all others. A bridging circuit is provided to increase the number of available program sources. Both models combine a sensitive AM-FM tuner with a CD player. Player includes input jack for MP3 player interface.

Standard Features

CD Player
- Supports most common CD audio formats: including CD, MP3 and WMA
- Aux stereo input jack (3.5 mm) allows for playback of MP3 devices and their pre-recorded music or announcements
- Three-band equalizer with six preset tone curves
- Single line text LCD display with 8-character text
- MP3 ID3 Tag Display (Title, Artist, Album)- shows tuner band, elapsed playback time, track number, type of disc, (when repeat play and local seek tuning are activated) - displays time when not in use
- Remote control for tuner included

Mixer/Preamp Unit
- Priority enable circuit
- Two low Z microphone inputs
- Two AUX inputs
- One bridge input

Specifications

Tuners	
AM Tuner	Frequency range selectivity: 530kHz to 1710kHz 40dB (+/–10kHz) Maximum sensitivity: 14dB/mV (5mV at 0.5W)
FM Tuner	Frequency range alternate channel selectivity: 87.9MHz to 107.9MHz 75dB Usable sensitivity stereo separation: 15.2dBf (1.6mV, 75W) 35dB at 1,000Hz 50dB quieting sensitivity image response ratio: 17.2dBf (2.0mV, 75W) 50dB Frequency response if response ratio: +/– 3dB 30Hz–15,000Hz 100dB Capture ratio signal-to-noise ratio: 1.5dB 70dB

CD Player	
WMA (.wma)	Encoded by Window Media Player Bit rate: 48 Kbps to 320 kbps (CBR), 48 kbps to 384 kbps (VBR)
WAV (.wav)	Compatible format: Linear PMC (LPCM). MS ADPCM Quantization bits: 8 and 16 (LPCM), 4 (MS ADPCM) Sampling frequency: 16 kHZto 48 kHZ (LPCM), 22.05 kHz and 44.1 kHz (MS ADPCM)
MP3 (.mp3)	Bit rate 8 kbps to 320 kbps Sampling frequency: 16 kHz to 48 kHz (32,44,1,48 kHz for emphasis) Compatible ID3 tag version: 1.0, 1.1, 2.2, 2.3, 2.4 (ID3 Tag Version 2.x is given priority over Version 1.x; M3u playlist: No; MP3i (MP3 interactive), mp3 PRO: No
Disc	Playable folder hierarchy: up to eight tiers (A practical hierarchy is less than two tiers) Playable folders: up to 99; Playable files: up to 999 File systems: ISO 9660 Level 1 and 2, Romeo, Joliet Multi-session playback: Yes; Packet write data transfer: No; Regardless of the length of blank section between the songs of the original recording, compressed audio discs play with a short pause between songs.

Overall Data	
Power requirements	+12Vdc, 700mA maximum
Inputs	2 low-impedance microphones, 2 auxiliary inputs, built-in AM/FM/CD/MP3 Player
Audio line output	3Vrms maximum
Controls (front)	POWER on/off switch, MASTER volume control, MONITOR speaker volume, control, 5 source selector/mixer bank
Controls (AM-FM tuner/ CD Player)	Function, EQ/Loud, SCR/Off, Station Program Buttons (6). Eject (CD), Audio, Clock set, Disp/SCRL, Band/ESC, Curser ControlScan; Tuning (manual or preset, five AM and ten FM preset stations available)
Controls (rear)	5 source preset input level adjustments, 1 monitor preset level adjustment, 1 bar graph level adjustment
Indicators/displays	Master Power LED; Preamp output level bar graph
Terminations	Preamp out (screw terminal); Power (screw terminal); AUX (RCA pin jack); MIC input (screw terminal); Bridge (RCA pin jack); Priority Enable Input and Output (screw terminal); Antenna (F-81C female for RG59 coaxial cable, 75 ohms)
Housing	Metal rack mount panel finished in textured charcoal-colored powdercoat. Can be converted to tabletop.
Dimensions	19" (48.3 cm) wide x 3.5" (8.9 cm) high x 10.25" (26 cm) deep When used as a table top configuration, the dimensions are: 14" (36 cm) wide x 2.75" (7 cm) high x 10.25" (26 cm) deep
Antenna termination	F-81C female for RG59 coax cable 75 Ω
Wiring Preamp out	Twisted pair, 22 AWG min.

Ordering Information

Model	Description	Weight
RCD350P	Rack mount AM/FM Tuner/CD Player and MP3 Player with pre amp, Includes RCD-PS Power Supply.	11.7 lb (5.3 kg)
RCD-RA	Replacement rackmount adapter kit	
RCD-PS	Replacement +12VDC power supply	