

# CommandScan

## Master Antenna Control Software

### Applications

- Standard Control System for all new ASC-140 Slave Controllers
- Upgrade Control System for MAC-100 and MAC-1000 Master Controllers

### Features

- Compatible with MRC and Wescam helicopter antenna pods
- Easy to use graphic user interface
- Color Signal Strength, and BER (bit error rate) "BER" displays
- Control up to 8 any number of sites with 1 master
- May be installed onto any computer running Windows 95/98/NT/2000 (2000 Professional – standard)
- Multiple computers can be networked for distribution of control
- Antenna and Receiver Controls and Indicators
- Antenna positioning Azimuth & Elevation
- Antenna selection for SectorScan Systems
- LNA Gain Reduction
- NAVTRACK (Helicopter Tracking System)
- Venue Presets
- Received Signal Level (AGC)
- BER (bit error rate)
- Receiver Channel and Band Selection

### Overview

A CommandScan Master Control System is a standard master controller for the central receive and Tower-Cam systems controlled with the ASC-140. It is also the replacement for the MAC-based MAC-100 and MAC-1000 Master Controllers. All existing MAC-100 and MAC-1000 units can be updated to CommandScan with no modification necessary to the existing ASC-140 units, with minor or no modification of the modem cards.

CommandScan can be ordered as a networked or non-networked system. The networked version allows multiple master control stations to be networked together over an Ethernet connection. This allows control stations to be distributed throughout a studio facility, or even in separate buildings, cities, or states. Two stations, both running CommandScan can even network their systems to share their remote assets, if and as desired.



The CommandScan system runs with a Windows Operating System (Windows 2000 Professional) and provides an intuitive set of controls. The controls and indicators are designed to be consistent among the various antennas, receivers, and cameras supported. With the appropriate controls either being present or absent from the screen, the operator does not need to learn the specifics of each site. If a given control, such as elevation is present, the operator is intuitively aware that that antenna is so equipped. If it is absent, the operator knows the system does not have that feature.

All functions for a given antenna or camera system are displayed on a single screen. There is no need to change screens to access different elements of the system. One of the main requirements for any directional antenna system is antenna pointing. CommandScan comes standard with manual fast and slow azimuth controls, a go-to function for steering immediately to a predetermined direction, and 16 venue presets for repetitive shots like "City Hall", "Police HQ", etc. These presets are operator programmed by setting up the shot one time, and saving that information with a simple Preset Save button. The preset button can then be easily re-named from the generic "Preset n" to the intuitive name, like those given above, by right-clicking on the button, and typing in the name. CommandScan can also be used for helicopter tracking applications if the associated ASC-140 is equipped with the NAVTRACK option.

# SPECIFICATIONS

CommandScan is designed to communicate extremely efficiently with the remote site(s). This is not the case with all of our competitors. A data table is built in each slave on start-up and replicated in the master. From that point on, only changes are communicated between them. This technique allows "real-time" control and feedback updates over even very slow (1200 baud) communication channels.

## Communication

The system is designed to communicate with the remote sites over multiple comm. Line types, Modems are available for dial-up, two-wire, four-wire, RS-232 or RS-422 communication links (RS-232 and 422 speeds can be 1200, 2400, 4800, or 9600 baud).

The CommandScan system provides an economical way of building an extremely advanced master control system.

## SPECIFICATIONS1

Antenna Polarization: ..... H, V, RCP, LCP  
 Antenna Position Control ..... NAVTRACK, Manual  
 Go-To, Venue Preset  
 LNA Gain Selection: ..... High / Low  
 Antenna Band Switch: ..... 2, 7, 13 GHz  
 Receiver Control: ..... Local or Remote  
 Site Management Contacts: ..... (3)  
 Preset Locations: ..... (16)  
 Receiver IF Bandwidth ..... Wide, Medium, Narrow  
 Receiver Squelch: ..... On / Off  
 Modem Com. Port: ..... 1, 2, 3 or 4

## DIGITAL FUNCTIONS

BER color Alarm Indicator  
 BER color Bar Graph  
 2-Wire, 4-Wire, Dial-UP, RS-232, RS-422  
 (RS-232 and 422 speeds can be 1200, 2400, 4800, or 9600 baud)



CommandScan Master Control Screen

CommandScan Master Control  
 Software displayed  
 on desktop PC with 17" Monitor



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