



## MISSION CRITICAL COMMUNICATION SOLUTIONS

# TELEPHONE-STYLE CONTROL HEAD

Combining class leading robustness with a sleek ergonomic design, the discreet telephone-style control head (TSCH) provides flexibility and ease of operation, making it well suited for in-vehicle applications. Fully compatible with MTM5500 radios, the design attributes of the TSCH ensure uncompromising performance for mission-critical operations.

### INSTALLATION FLEXIBILITY

For installations in long vehicles, buses or trains, the TSCH can be conveniently located as far as 40m away from the transceiver. To further simplify the installation, the TSCH is remotely powered via a single cable, from the transceiver.

The TSCH can be used in a dual control head configuration and also in conjunction with our other control head options. In addition to the TSCH, Motorola offers a wide range of control head options including pump bay terminals for fire trucks, custom control solutions and standard control heads.

The screen orientation is easily adjusted to accommodate different fitting options. For example, a horizontal screen orientation can be applied when the device is fitted onto a windscreen.

### EASE OF USE

The TSCH is well suited for telephone style communications, supporting full duplex private calls as well as half duplex communications.

A vibrant, colour display makes it easy to read text and view images on the device.

To minimise training requirements, the TSCH uses the same user interface found in our proven range of portable radios. To enable a quick response in critical situations, a clearly visible emergency button and a rotary control for volume and talk group changes are easily accessed on the handset cradle.

With its sleek design, the TSCH can be comfortably used underneath a helmet and has been designed so that it completely encloses the ear - this ensures that background noise is minimized.

### UNCOMPROMISING PERFORMANCE

Exceptional audio performance is achieved thanks to the digital connections between the transceiver and the TSCH. The enhanced audio processing enables louder and clearer audio from the TSCH and connected loudspeakers.

With its IP55 environmental protection rating, the TSCH is designed with the ruggedness and weather resistance needed for operation in harsh environments.

**PRODUCT SPEC SHEET**  
TELEPHONE-STYLE CONTROL HEAD

**GENERAL**

Weight (excluding cable)	194g
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**DIMENSIONS (HANDSET)**

Length (excluding cable grommet)	171mm
Width (including PTT)	53.5mm
Depth (including earcup)	37mm

**DIMENSIONS (HANDSET IN BRACKET)**

Width (including PTT)	66mm
Length (excluding cable grommet)	220mm
Depth (including mounting)	74mm
Cable length (coiled)	770mm
Cable length (max stretch)	2.0m

**USER INTERFACE**

2.0" large TFT Colour Transflective Display
30.6mm (W) x 40.8mm (H) LCD active area
240 x 320 black pixels on white background
Good readability with polarized sun glass in both portrait and landscape mode
Good readability under sun light, room and dark environment
Adjustable back-light control
Support up to 65K colours
Back-lit character keypad
Zoom available
MMI common with Motorola products

**AUDIO**

Internal Microphone on handset plus optional hands-free microphone support
The cradle supports: • microphone • PTT • External Emergency • Speaker

**ELECTRICAL SPECIFICATIONS**

Powered directly by the transceiver (1 cable)	
Voltage Range	10.8 to 15.6 VDC

**ENVIRONMENTAL SPECIFICATIONS**

Sealing	IEC 60529 rating IP55 (category 2)
Operating	-30°C to +60°C
Vibration	ETSI EN 300 019 - 2- 5, Class 5.2 (5M3)
Storage	-40°C to +85°C ETSI EN 300 019 - 2- 2 Class 2.3 MIL-STD 810C/D/E/F/G
Transport	ETSI EN 300 019 - 2- 2 Class 2.3 MIL-STD 810C/D/E/F/G
Climatic	ETSI EN 300 019 -2 -5, Class 5.2

**APPROVALS**

EN 301 489-1 V1.3.1
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E-mark, Automotive EMC Directive 95/54/EC

**SAFETY**

IEC 60950:2005	
Flammability	UL94 (HB minimum) IEC 60950:2005
Chemical resistance	External surfaces are tested to be safe with oleic acid and disinfectant exposures

**ACCESSORIES AND INSTALLATION ITEMS**

Range of 3,5,7, 10, 12 and up to 40m remote installations (single cable)
The TSCH can be installed as required
External Microphone, PTT, Speaker and Emergency is available
A slim mounting bracket is available



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