RUGGED DISPLAY & CONTROLLER

WR-DISP-SYS-01

YOUR PLATFORM IN EVERY HAND

The RDC gives users a single device for unmanned system Command & Control, operating PTZ cameras, viewing sensor data, & more. Empower the warfighter with apps to leverage your platform at the highest level of effectiveness.

DRIVE ADOPTION OF YOUR PLATFORM

- Develop an Android™ app to control your product, run your app on the MPU5, and put your app into action with the RDC
- Reduce SWaP on the soldier by delivering control capabilities via software

DEVELOPERS ARE THE KEY TO THE NETWORKED BATTLEFIELD

- Design your applications to succeed in the future – the networked battlefield – where every team member can interface with assets on a common network

BUILD YOUR PRODUCTS FOR THE BATTLEFIELD

- More inputs than standard EUDs – all available via Android™ – give you more ways to control your app
- Optimize app navigation with hot-keys and shortcuts to enable precise control in complexity of the battlefield
- Eight high-precision integrated sensors let you leverage real-world information in real time via the Android™ sensor framework

SIMPLE APP INTEGRATION

- Appears to Android™ as a USB Gamepad, enabling simple, standard user interface in your app
- Wave Relay® MANET appears as a normal Ethernet network so apps can leverage MANET capabilities
- Build your apps the same way you would for any other Android™ device - we do the hard part of designing the controller

NO NDA REQUIRED

SPECIFICATIONS

Camera

Location
(1) Rear-Facing

Resolution
5 MP

Display

Display Type
Thin-Film-Transistor Liquid Crystal Display (TFT)

Size
5.7 in.
14.5cm

Resolution
720x1280

Aspect Ratio
9:16

Orientation
Landscape & Vertical

Luminance
100% brightness = 429.72 nits
75% brightness = 334.33 nits
50% brightness = 215.87 nits
25% brightness = 124.91 nits
0% brightness = 12.00 nits

Viewing Angle
± 80°

Viewability
Direct sunlight viewable

Contrast Ratio
900:1

Backlight
Visible in sunlight

Glass
2mm Gorilla® Glass

Electrical

Power Source
Powered by MPU5 – no additional battery required

Power Consumption
0.47W (Screen Off)
1.67W (100% brightness)

Environmental

IP Rating
IP68
Waterproof to 20m for 30 mins
Dustproof

Operating Temperature
-20° to +70°C

Features & Capabilities

Joysticks
(2) 2-Axis Joysticks

Sensors
Accelerometer/Gyrometer, Compass, Temperature, Pressure, 2x Light

Buttons
(14) total buttons
Button spring force prevents unintentional activation by water pressure up to 20m

Mouse Mode
Pressing the **fn** and **A** buttons simultaneously allows user to control cursor with left joystick and click with the **A** button

Touchscreen Disabled Mode
Pressing the **fn** and **B** buttons simultaneously disables touch screen without disabling joysticks

Physical

Material
Aluminum

Finish
Cerakote™

Color
Flat Dark Earth

Dimensions
7.2 x 4.2 x 1.0 in.
18.29 x 10.67 x 2.54 cm

Weight
15.59 oz.
442 g

Mounting
Includes Juggernaut Chest mount
1/4-20 threaded hole for tripod or other mounting system

Interfaces
Connects to Dual PTT USB Port

Software Integration

Video
Leverages MPU5 Hardware Accelerated Video Decoding

Android™ Sensor Framework

Compatibility
Supports:
Accelerometer
Ambient Temperature
Gravity
Gyroscope
Light
Linear Acceleration
Magnetic Field
Orientation
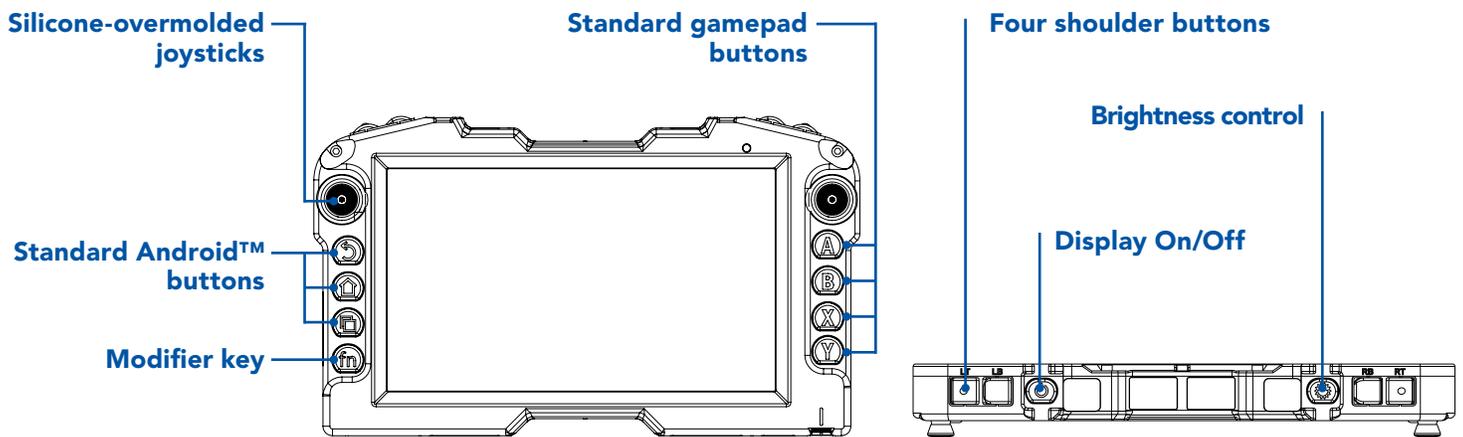Pressure
Rotation Vector
Temperature

Touch Screen

Technology
Projected Capacitive

Multi-Touch
5-point

Silicone-overmolded joysticks

Standard Android™ buttons

Modifier key

Standard gamepad buttons

Four shoulder buttons

Brightness control

Display On/Off

persistentsystems.com