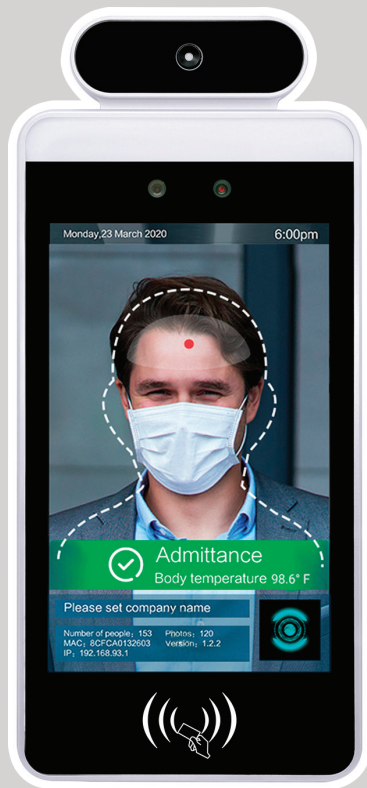BDS-8W(-1), BDS-8FHA(-1), BDS-8THA(-1)

BDS TEMPERATURE KIOSK

24/7 TECHNICAL SUPPORT AT 877.877.2269 OR VISIT BLACKBOX.COM

BLACK BOX

OVERVIEW

BDS-8 TEMPERATURE KIOSK (BDS-8W[-1], BDS-8THA[-1], BDS-8FHA[-1]) DATA SHEET

INTRODUCTION

The Black Box Detection System (BDS) thermal detection kiosk uses advanced thermal detection and facial recognition technology to quickly scan body temperatures and provide access control. Combined with intuitive BDS Management software, the kiosk can identify potential safety threats and help mitigate large-scale exposure. It can be used with access gates and attendance systems for office buildings, schools, hotels, sporting events, transportation hubs, and countless other private and public spaces.

The BDS unit mounts on a wall (BDS-8W, BDS-8W-1), tabletop (BDS-8THA, BDS-8THA-1), or floor (BDS-8FHA, BDS-8FHA-1).

FEATURES

- HAS A 2-MILLION PIXEL BINOCULAR WIDE DYNAMIC CAMERA FOR SHARP, CLEAR IMAGES
- SUPPORTS DETECTION AND TRACKING OF MULTIPLE PEOPLE AT THE SAME TIME
- INSTALLS ON A WALL, TABLETOP, OR FLOOR
- FEATURES AN 8-INCH LCD SCREEN
- SUPPORTS 19.6- TO 59-INCH (50- TO 150-CM) FOCUSING DISTANCE
- USES A RK3288 QUAD-CORE PROCESSOR
- PROVIDES EMMC 8G OF STORAGE SPACE
- OPTIONAL HDMI OUTPUT FOR SCREEN MIRRORING
- USES ONE DOOR OPEN SIGNAL OUTPUT
- HAS ONE RJ-45 CONNECTOR FOR WIRED ETHERNET CONNECTION
- SOUND IS DELIVERED VIA 2.5-W, 4-OHM SPEAKERS
- HAS USB AND SERIAL CONNECTORS

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SPECIFICATIONS

BDS-8 TEMPERATURE KIOSK (BDS-8W[-1], BDS-8THA[-1], BDS-8FHA[-1]) DATA SHEET

SPECIFICATIONS FOR BDS-8 TEMPERATURE KIOSK (BDS-8W, BDS-8W-1, BDS-8THA, BDS-8THA-1, BDS-8FHA, BDS-8FHA-1)	
CAMERA	
RESOLUTION	2 million pixels
TYPE	Binocular wide dynamic camera
APERTURE	F2.4
FOCUSING DISTANCE	19.6- to 59-inches (50 to 150 cm)
WHITE BALANCE	Auto
PHOTO FLOOD LIGHT	LED and IR dual photo flood light
SCREEN	
SIZE	8.0 inch IPS LCD screen
RESOLUTION	800 x 1280
BRIGHTNESS	500 Nits
TOUCH	Not supported
PROCESSOR	
CPU	RK3288 quad-core
STORAGE	EMMC 8G
INTERFACE	
NETWORK MODULE	Ethernet and wireless (WiFi)
VIDEO	(1) HDMI output (only BDS-8W-1, BDS-8THA-1, BDS-8FHA-1 models)
AUDIO	2.5 W/4-ohm speakers
USB	1 USB OTG, 1 USB HOST standard A port
SERIAL COMMUNICATION	1 RS-232 serial port
RELAY OUTPUT	1 door open signal output
WIEGAND	One Wiegand 26/34 output, one Wiegand 26/34 input
UPGRADE BUTTON	Support Uboot upgrade button
WIRED NETWORK	1 RJ-45 Ethernet socket
FUNCTION	
CREDIT CARD READER	None
FACE DETECTION	Supports detection and tracking of multiple people at the same time
FACE LIBRARY	Up to 30,000
1: N FACE RECOGNITION	Supported
1: 1 FACE COMPARISON	Supported
STRANGER DETECTION	Supported
IDENTIFY DISTANCE CONFIGURATION	Supported
UI INTERFACE CONFIGURATION	Supported
UPGRADE REMOTELY	Supported
INTERFACE	Interfaces include device management, personnel/photo management, record query, etc.
DEPLOYMENT METHOD	Supports public cloud deployment, privatized deployment, LAN use, standalone use
INFRARED THERMAL IMAGING MODULE	
TEMPERATURE DETECTION	Supported
TEMPERATURE DETECTION DISTANCE	3.2-ft. (1-m) (optimal distance 1.6-ft. [0.5 m])
TEMPERATURE MEASUREMENT ACCURACY	± 0.9° F (0.5° C)
TEMPERATURE MEASUREMENT RANGE	50 to 107.6° F (10 to 42° C)
THERMAL FIELD OF VIEW	32 x 32 degrees
VISITORS' TEMPERATURE IS NORMAL AND RELEASED DIRECTLY	Supported
ABNORMAL TEMPERATURE ALARM	Supported (temperature alarm value can be set)

SPECIFICATIONS (CONTINUED)

BDS-8 TEMPERATURE KIOSK (BDS-8W[-1], BDS-8THA[-1], BDS-8FHA[-1]) DATA SHEET

SPECIFICATIONS FOR BDS-8 TEMPERATURE KIOSK (BDS-8W, BDS-8W-1, BDS-8THA, BDS-8THA-1, BDS-8FHA, BDS-8FHA-1)	
GENERAL PARAMETERS	
MOUNTING METHOD	BDS-8W, BDS-8W-1: Wallmount; BDS-8THA, BDS-8THA-1: Tabletop; BDS-8FHA, BDS-8FHA-1: Floormount
POWER	12 VDC ±10%
OPERATING TEMPERATURE	32 to 140° F (0 to 60° C)
STORAGE TEMPERATURE	-4 to +140° F (-20 to +60° C)
POWER CONSUMPTION	13.5 W, max.
INSTALLATION METHOD	Gate bracket installation
DIMENSIONS	IC card/ID card (Reader unit only): 11.7" H x 5.2" W x 0.98" D (29.6 x 13.3 x 2.5 cm)

WHAT'S INCLUDED WITH THE BDS-8W(-1)

- **(1) MAIN UNIT**
- **(1) POWER ADAPTER**
- **(1) WALLMOUNT BRACKET**

WHAT'S INCLUDED WITH THE BDS-8THA(-1)

- **(1) MAIN UNIT**
- **(1) POWER ADAPTER**
- **(1) TABLETOP STAND**

WHAT'S INCLUDED WITH THE BDS-8FHA(-1)

- **(1) MAIN UNIT**
- **(1) POWER ADAPTER**
- **(1) FLOORMOUNT STAND**

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APPEARANCE AND DIMENSIONS

BDS-8 TEMPERATURE KIOSK (BDS-8W[-1], BDS-8THA[-1], BDS-8FHA[-1]) DATA SHEET

STANDARD

APPEARANCE

BDS-8 TEMPERATURE KIOSK (BDS-8W[-1], BDS-8THA[-1], BDS-8FHA[-1]) DATA SHEET

FLOOR STAND

Height: 43.3 inches (110 cm)

(2) USB ports

Base with adjusting screws

Blue light strip

Cold-rolled plate painting

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APPEARANCE

BDS-8 TEMPERATURE KIOSK (BDS-8W[-1], BDS-8THA[-1], BDS-8FHA[-1]) DATA SHEET

TABLE STAND

Base thickness: 1.5 inches (3.8 cm)

(2) USB ports

Base with adjusting screws

Blue light strip

Cold-rolled plate painting

APPEARANCE

BDS-8 TEMPERATURE KIOSK (BDS-8W[-1], BDS-8THA[-1], BDS-8FHA[-1]) DATA SHEET

FIXED METHOD

This is mainly used for gates and is fastened by a screw base.
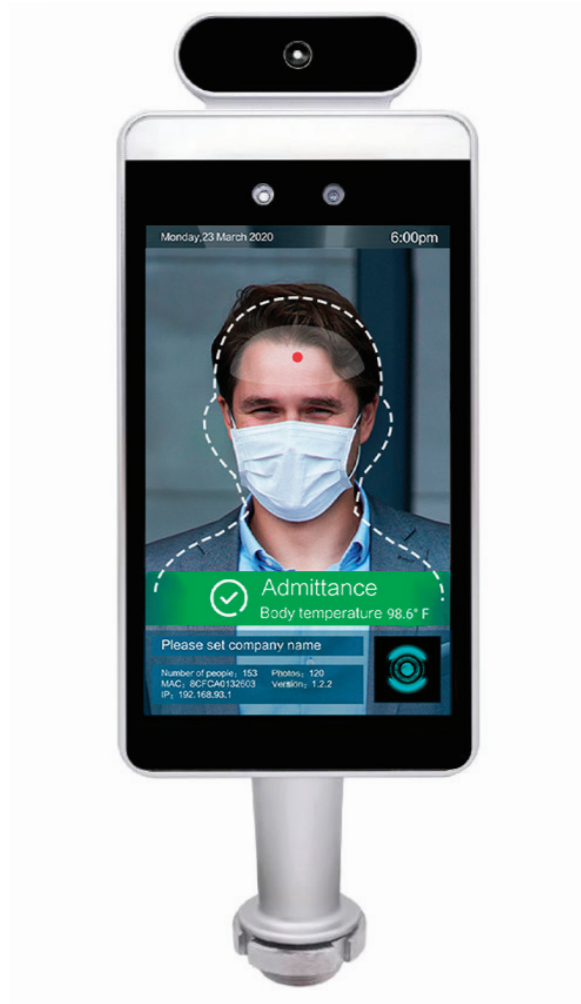
WIRE INTERFACE

BDS-8 TEMPERATURE KIOSK (BDS-8W[-1], BDS-8THA[-1], BDS-8FHA[-1]) DATA SHEET

WIRE INTERFACE DEFINITION
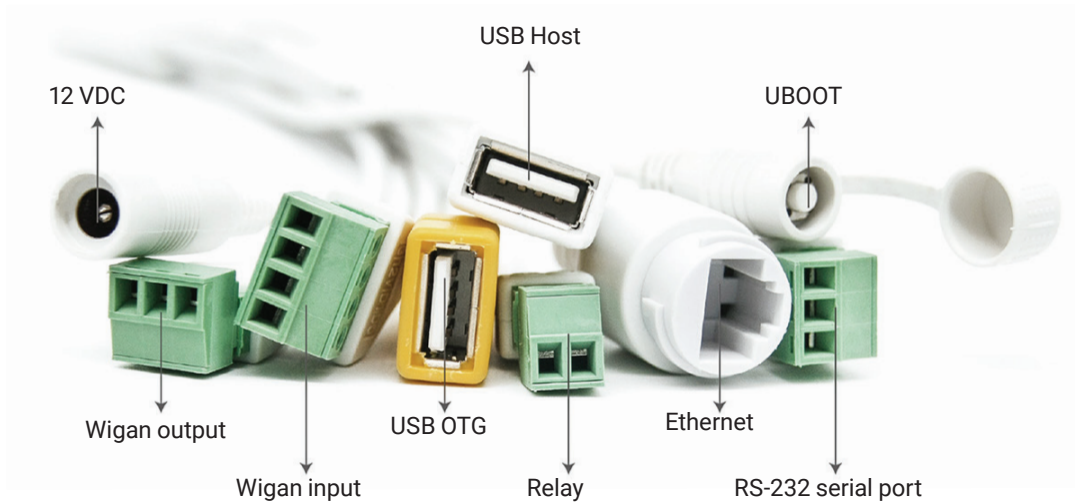
TERMINAL ELECTRICAL DEFINITION	
RELAY	
PIN 1	COM
PIN 2	No
WIGAN INPUT	
PIN 1	D0_IN
PIN 2	D1_IN
PIN 3	12 V
PIN 4	GND
WIGAN OUTPUT	
PIN 1	D0_OUT
PIN 2	D1_OUT
PIN 3	GND
RS-232 SERIAL PORT	
PIN 1	232_RX1
PIN 2	232_TX1
PIN 3	GND

ORDERING INFORMATION

ITEM	CODE
BDS-8 Temperature Kiosk	
Wallmount	**BDS-8W**
Wallmount, HDMI, Audio	**BDS-8W-1**
Tabletop	**BDS-8THA**
Tabletop, HDMI, Audio	**BDS-8THA-1**
Floormount	**BDS-8FHA**
Floormount, HDMI, Audio	**BDS-8FHA-1**

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ABOUT BLACK BOX

Black Box is a world leading technology solutions provider specializing in complete high-performance KVM, professional A/V signal distribution and extension and switching solutions for mission-critical applications. Black Box is dedicated to delivering superior project engineering, technical support, and 24/7 customer service you can rely on for your most critical operations.

Every day, our customers trust us to design, integrate, and maintain reliable control room solutions for broadcasting, post-production, stadiums & arenas, medical, air traffic control, oil & gas, government & military, and utility industries. Leave the tech to us and our comprehensive technology solutions will deliver secure connections, fast-response times, real-time collaboration and more.

NOTES

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