

TD53

All-in-One
Video Intercom,
Video Security,
and Door Access



Overview

Verkada’s TD53 Video Intercom is a versatile and multifunctional device featuring video intercom, access control, and security camera capabilities, all in a sleek and durable form factor. The TD53 delivers excellent call quality across diverse environments. Callers can be seen clearly in nearly any type of lighting condition, and both callers and receivers can be audibly heard in highly-trafficked areas.

Organizations can simplify their entry experiences with native and third-party integrations to access control systems. The TD53 is also equipped with a card reader that is compatible with several credential types and technologies. The intercom camera also offers the full recording and analytics functionality of Verkada’s security cameras to boost visibility and security at entryways.

The TD53 is great for outdoor deployments and harsh environments. It is immediately recessed mountable on a double-gang box, but a variety of mounting options and accessories facilitate easy installation on almost any surface.

Key features

All-in-one functionality

Combined video intercom, access control, and security camera functionality simplifies and secures the entire entry experience.

High-definition video

5MP camera resolution, Wide Dynamic Range, IR LEDs, and 130° FoV allow a clear visual of high-traffic entryways day and night.

HF, LF, NFC, BLE support

Built-in card reader supports many common high-frequency, low-frequency, NFC, and Bluetooth LE credentials.

Flexible installation

Family of mounts and accessories support diverse installation requirements.

Sharp audio

Four microphones, a DSP, and a 90dB speaker combine to deliver superior noise suppression and echo cancellation for maximum audio clarity on every call.

Built for durability

IP66 and IK08 ratings coupled with a removable lens cover ensure the intercom withstands strong impact and inclement weather.



TD53 Tech Specs

Power and rating

Power Consumption	37-57V, 0.62-0.40A	Power Input	IEEE 802.3af PoE IEEE 802.3at PoE+ (extended temperature range*)
Connectivity	Ethernet: 10/100/1000Mbps RJ-45 cable connector for Network/PoE connection	Rating	IK08, IP66

General

Dimensions	Height: 229mm / 9.0in Width: 118mm / 4.7in Depth: 33mm / 1.3in	Operating Temperature	-20°C – 50°C / -4°F – 122°F 802.3af PoE -40°C – 50°C / -40°F – 122°F 802.3at PoE+
Weight	1.0kg / 2.2lb	Tamper Detection	Yes
Included Accessories	Flush mount plate, surface mount box, T10 screwdriver, mounting hardware kit, grommet punch	Separate Accessories	Conduit mount box, angle mount box, trim plate, rain hood, PoE over 2-wire converter
Warranty	10 years	Onboard Storage	512GB
Inputs / Outputs	3x dry inputs 2x dry relays, 30VDC @ 1A (resistive load) 1x RS-485 port	Construction	Aluminum, steel, polycarbonate

Dimensions



Compliance and availability

Compliance & Safety	FCC Part 15B Class B, ICES-003 Class B, CE, UKCA, RCM, UL/IEC 62368-1, CSA NO22.2 62368-1, UL 294, ULC-60839-11-1 Outdoor	Availability	USA, CAN, UK, EU, AUS, NZ
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Card reader compatibility

Controller Compatibility	Runs directly on TD53 intercom or via RS-485 connection to a standalone Verkada access controller	Low Frequency Card Compatibility	HID Prox II 26-Bit (H10301), 37-Bit Wiegand HID H10304, 37-Bit Wiegand HID H10302, HID 35-Bit Corporate 1000
High Frequency Card Compatibility	Verkada DESFire EV3, MiFare / DESFire NFC Card Serial Number	Mobile Credential Compatibility	Verkada Pass app, Apple Wallet, Android NFC



TD53 Tech Specs

Camera specifications

Sensor Resolution	5MP (2688 x 1944)	Iris	Fixed
Lens Type	Fixed	Aperture	F2.1
Image Sensor	1/2.8" Progressive CMOS	Field of View	Horizontal: 130° Vertical: 100° Diagonal: 160°
IR Range	15m / 50ft in low light	Focal Length	2.12mm

Audio specifications

Audio Streaming	Two-way, full duplex with echo cancellation, noise suppression, and adaptive beamforming	Audio Input	4 omnidirectional MEMS microphones
Audio Output	5W speaker; 90dB SPL at 1m / 3.3ft		

Intercom software capabilities

Verkada Receivers	Verkada Pass app, Verkada Desk Station, Verkada Command	Phone System Receivers	SIP, VoIP, PSTN, Microsoft Teams
Remote Lock / Unlock	Yes	Call History Details	Call timeline, video recording, searchable transcript, people detection and search
Call Routing Features	Multiple user and receiver options, failover steps, automatic messages, schedulable call logic, routing to central call center	Insights at Scale	Annotated call events, AI-powered transcription search, reports, call flows, and dashboard analytics across intercoms and sites

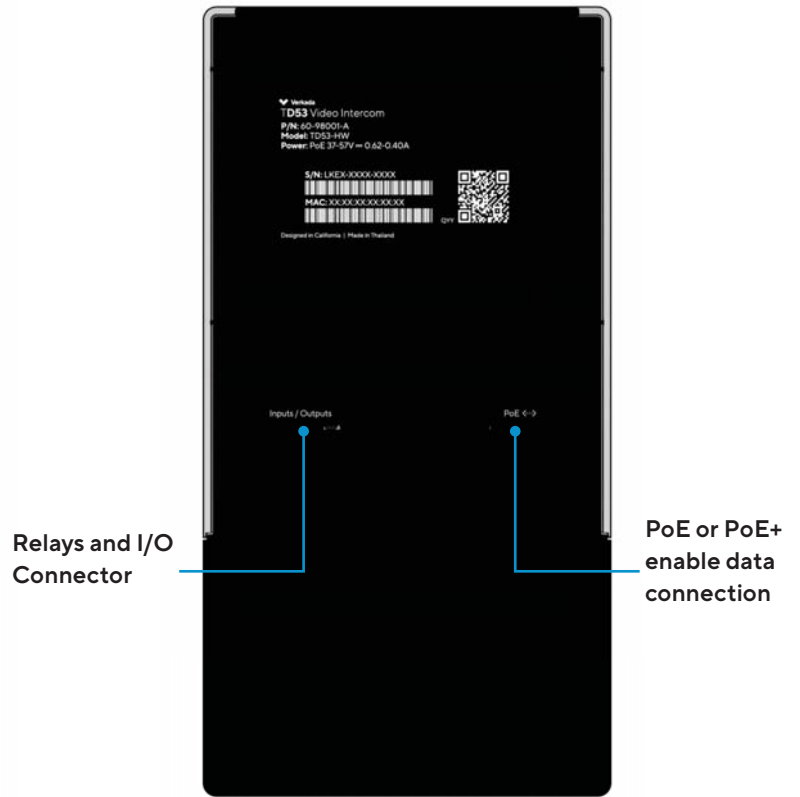
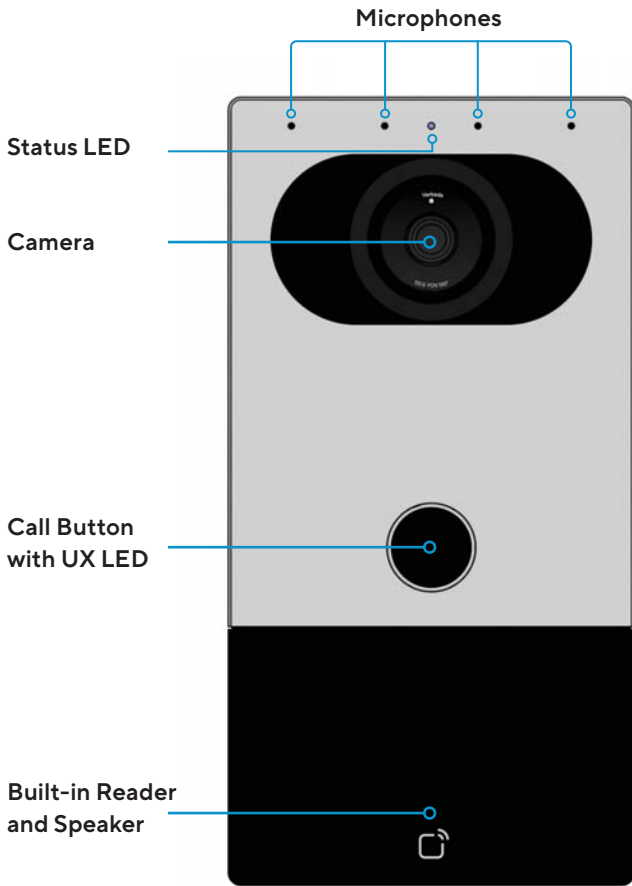
Video security software capabilities

Alerts	Call triggered, call missed, SIP connection, device status, motion detection, people detection, vehicle detection, Person of Interest search, crowd detection	Streaming and Storage	Cloud backup, selectable storage location, timelapse, RTSP
People Analytics	People search, attribute search, face search, occupancy trends	Sharing and Privacy	Live Links, privacy regions, audit log
Vehicle Analytics	Vehicle search, attribute search	Incident Reporting	Archive clips, save to incident report



TD53

Inputs and Outputs



Relay 1			Relay 2		
NC	COM	NO	NC	COM	NO
IN3	IN2	IN1	GND	RS-485 B+	RS-485 A-
3 Inputs			1 RS-485		