

PASSIVE WALK-THROUGH METAL DETECTOR

BallistiSCAN

Hockey-puck sensors. No archway.

ONE CASE • TWO PUCKS
UNDER FIVE MINUTES



FIG. 01 • FIELD KIT – CASE OPEN 20 LB • ONE OPERATOR



FIG. 02 • SENSOR HEAD + RJ45

AT A GLANCE

01

Under 5 min

Two sensor discs on barrier poles — one operator, case to live

02

20 lb kit

Full system — sensors, controller, batteries, alarm tower

03

Passive sensing

Ferromagnetic field detection — no emitted radiation, no archway

OVERVIEW

BallistiSCAN is a portable walk-through metal detector that swaps the TSA-style archway for two puck-sized sensor heads mounted on lightweight barrier poles. The system reads the ferromagnetic signature of each person as they pass between the sensors at walking pace, with no backpack removal and no queue infrastructure. The full kit weighs roughly twenty pounds, ships in a wheeled TSA-lock case, and sets up in about five minutes on any flat surface. In service at U.S. schools since 2019.

FULL SPECIFICATION

Technical profile

DETECTION METHOD	Passive ferromagnetic (magnetic anomaly detection); no emitted radiation
GENERATION	V3 – current production unit
SYSTEM WEIGHT	~20 lb total including case, sensors, controller, batteries
SETUP TIME	About 5 minutes; one operator, no tools required
SENSOR HEADS	Two discs, Ø90 mm × 30 mm H; mounted on barrier poles at 36 in floor height
SENSOR SEPARATION	48 in at sensitivity 5; 51 in at 6; 54 in at 8 (field-selectable)
CONTROLLER	219 × 116 × 39 mm; touch screen; two configurable relays
ALARM	Red strobe tower; on-screen indication; dry-contact relay out
POWER	DC 12 V / 2 A adapter, or two included 18 V Milwaukee M18 batteries
OPERATING TEMPERATURE	14°F to 122°F (-10 to 50°C)
CONNECTIVITY	USB, Ethernet (CAT6, max 75 ft); on-board Wi-Fi AP
INTEGRATION	Turnstile relay control; networkable; third-party software API
INCLUDED	Sensors, controller, touch screen, alarm tower, two M18 batteries, charger, TSA-lock case (stanchion poles field-sourced)
IN SERVICE	Deployed at U.S. schools since 2019

DEPLOYMENT CONTEXT

01 Passive, not emissive

Ferromagnetic sensing reads the field around each person. The unit does not emit radiation or X-rays.

03 Detects ferrous metal

Reads ferromagnetic mass — firearms, knife blades, vape devices. Not ceramics, plastics, or aluminum.

02 Walks, not stops

Throughput matches walking pace. Backpacks, laptops, and lunchboxes stay on the body.

04 Site survey recommended

Entryway geometry, flooring, and adjacent electronics affect placement. Specifications team will review.

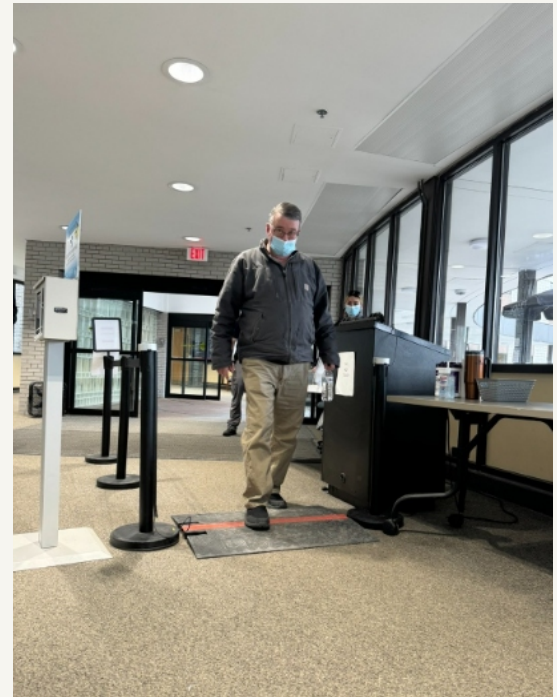


FIG. DEPLOYMENT

BallistiSCAN lane setup — two sensor discs on barrier poles screen each person passing between them at walking pace, with no archway and no backpack removal.

Request a site assessment.

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