PS20 Series Scanner
INDOOR/OUTDOOR, MEDIUM DUTY

Product Features

- High Reliability – No Worm Gears to Adjust, No Chain to Lubricate, No Gear Head on Motor
- Scans Past 360°, Eliminates Blind Spots
- 2-Year Unlimited Continuous Duty Warranty
- Auto and Random Scan Operation
- Three Speed Settings
- 120 VAC, 24 VAC, and 230 VAC Models
- Upright or Inverted Operation
- Magnetic Limit Stops Microprocessor Controlled
- Quiet, Smooth Operation
- Completely Sealed Unit – Meets NEMA Type 4 Standards
- Maximum Load 35 Pounds (15.75 kg)

Backed by a two-year unlimited continuous duty warranty, Pelco's **PS20 Series** scanner is perfect for indoor and outdoor installations. Ruggedly constructed and completely sealed, the scanner features stepper motor technology for increased reliability; three speed settings (3, 6, and 12 degrees per second) selectable at installation; and microprocessor-controlled magnetic limit stops for quiet smooth operation.

The **PS20** is ideal for a wide array of surveillance installations and reduces the need for numerous fixed cameras. Designed to operate with loads up to 35 pounds (15.75 kg), the medium duty scanner is easy to install and can be mounted to any flat surface in an upright or inverted position.
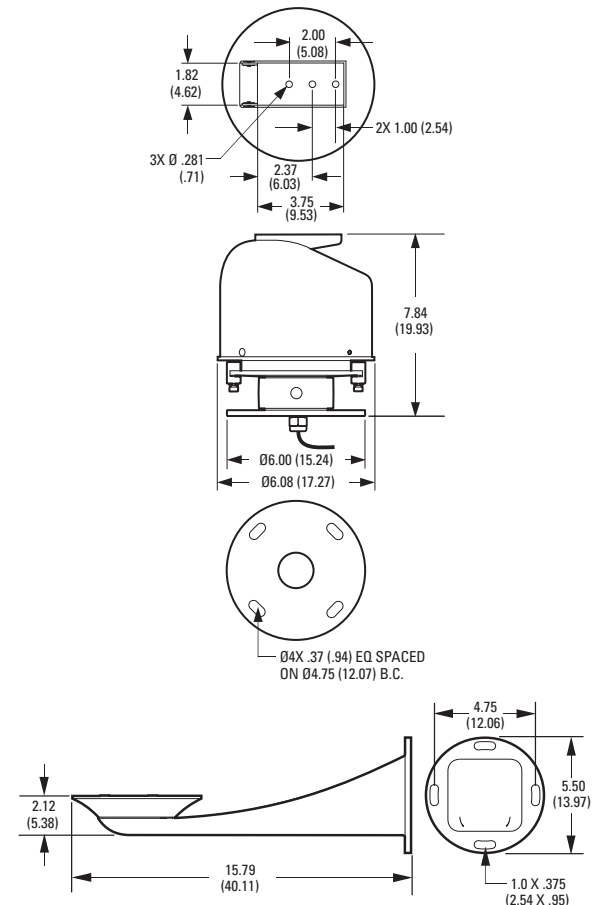
The scanner is capable of pan rotation past 360 degrees, to 380 degrees, for a complete panoramic view. The unit also has a manually adjustable tilt table for viewing from 0 degrees horizontal to 65 degrees tilt position.

The **PS20** scanner is capable of auto and random scan operation without the need for a controller. Connected to a Pelco MPTAZ Series control, the scanner can operate continuously, randomly, and manually. The **PS20 Series** scanner is compatible with all Pelco scanner and pan/tilt hard wire controllers.

The 24 VAC **PS20** scanner is available in easy-to-order ScannerPak systems. Systems include an EH3512-HD enclosure, sun shroud, and choice of pre-installed camera configuration (camera and lens). The PSWM wall mount designed specifically for the **PS20 Series** is also available with some ScannerPak systems. See the ScannerPak Selection Guide for system model numbers.

PS20 WITH EH3512-2HD, SUN SHROUD, AND PSWM

NOTE: VALUES IN PARENTHESES ARE CENTIMETERS; ALL OTHERS ARE INCHES.

DataFAX
SPEC: 2361
MANUAL: 23616

C361 / REVISED 10-03

IP66

International Organization for Standardization; Registered ISO 9001

MODELS

PS20	Medium duty scanner, 120 VAC
PS20-24	Medium duty scanner, 24 VAC
PS20/230	Medium duty scanner, 230 VAC

MECHANICAL

Pan	0-380° movement in horizontal plane
Speed	3°, 6°, and 12° per sec
Maximum Load	35 lb (15.7 kg) centered
Operation	Upright or inverted
Bearings	Heavy duty ball bearings
Overload Protection	Thermal protected

ELECTRICAL

Input Voltage

PS20	95-130 VAC
PS20-24	22-28 VAC
PS20/230	210-240 VAC

Power Requirements

PS20	0.25A (30 VA) at 120 VAC
PS20-24	0.75A (20 VA) at 24 VAC
PS20/230	0.25A (30 VA) at 230 VAC
Connectors	Wire nuts (provided), butt splice (not provided)
Motors	Stepper motor, continuous duty, instantaneous reversing
Limit Switches	Auto scan switching; external adjustment
Conductors	7, unshielded (functions: left, right, auto, motor common, safety ground, AC HI, AC LO)

Maximum Operating Distances

	20 AWG (0.5 mm^2)	18 AWG (1.0 mm^2)	16 AWG (1.5 mm^2)
PS20	2,300 ft (701 m)	3,700 ft (1,127 m)	5,900 ft (1,798 m)
PS20-24	5,600 ft (1,706 m)	9,000 ft (2,743 m)	14,300 ft (4,368 m)
PS20/230	1,400 ft (426 m)	2,300 ft (701 m)	3,600 ft (1,097 m)

GENERAL

Construction	Aluminum
Finish	Gray polyester powder coat
Environment	Indoor/outdoor; -10° to 120°F (-23° to 49°C)
Unit Weight	9.9 lb (4.5 kg)
Shipping Weight	12 lb (5.4 kg)

CERTIFICATIONS/RATINGS/PATENTS

- CE, Class A
- UL Listed
- UL Listed to Canadian safety standards
- FCC, Class B
- Meets NEMA Type 4, IP66 standards
- U.S. patent pending

RECOMMENDED CONTROLS

MPS524DT	Desktop control for PS20-24 scanner
MPTAZ Series	Desktop scanner and zoom lens control capable of auto/random scan

RECOMMENDED ENCLOSURE

EH3010/EH3014	Small, indoor enclosure
EH4010/EH4014	Small, indoor enclosure
EH3508/EH3512	Small, indoor/outdoor enclosure

RECOMMENDED MOUNTS

PSWM	Wall mount for PS20 Series
PM2000, PM2010	Universal ceiling/pedestal mount
ECM100	Corner mount; use with PSWM wall mount
EPM	Pole mount; use with PSWM wall mount

SCANNERPAK SYSTEMS

ScannerPak Systems include the 24 VAC scanner (PS20-24), an EH3512-2HD enclosure, sun shroud, choice of Pelco camera and 3-8 mm varifocal lens. (Consult the factory for 120 or 230 VAC ScannerPak Systems.)

Available ScannerPak Model Numbers:	PS20-2CHV3	PS20-2CGV3	PS20-2MGV3
	PS20-2CHV3W	PS20-2CGV3W	PS20-2MGV3W

SELECTION GUIDE

System Model Number   PS20-2CHV3W

Scanner and Enclosure
   (The EH3512-2HD enclosure includes a heater and defroster)

Camera
   CG = CC3710S-6, standard resolution, color camera, NTSC
   CH = CC3710H-6, high resolution, color camera, NTSC
   MG = MC3710S-6, standard resolution, monochrome camera, NTSC

Lens
   V3 = 13VA Series, 3-8 mm varifocal lens

Mount
   Blank = No mount
   W   = PSWM wall mount