VC-Dot 1 System Diagram

P3-Mode

P3 System Controller

P/N 90721010 P3-100™ System Controller
P/N 90721020 P3-200™ System Controller
P/N 90721030 P3-PC™ System Controller

Cat 5e (or better) Ethernet Cable

P3 PowerPort

P/N 90721040 Martin P3 PowerPort 1500™

Cat 5e (or better) Ethernet Cable

P3 PowerPort

Maximum 100m Ethernet Cable between any 2 devices
(extendable via Gigabit Switch or conversion to fiber)

Up to 4 daisy-chains per P3 PowerPort

Up to 1200 VC-Dot 1's per P3 PowerPort

Up to 300 VC-Dot 1's per daisy-chain

Examples:
3 strings of 100 VC-Dot 1's or
4 strings of 75 VC-Dot 1's or
5 strings of 60 VC-Dot 1's or ...

Total length of all Hybrid (Power & Date) Cables should be less than 50m

(not including the VC-Dot Strings itself)

4-pin XLR to IP65 Adapter

P/N 11840165 Hybrid (Power & Data) Adapter, 4-pin XLR to IP65, 0.25 m (0.8 ft.)

IP65 Cable(s)

P/N 11840167 Hybrid (Power & Data) Cable, IP65 to IP65, 1 m (3.3 ft.)
P/N 11840168 Hybrid (Power & Data) Cable, IP65 to IP65, 2.5 m (8.2 ft.)
P/N 11840169 Hybrid (Power & Data) Cable, IP65 to IP65, 5 m (16.4 ft.)
P/N 11840170 Hybrid (Power & Data) Cable, IP65 to IP65, 10 m (32.8 ft.)
P/N 11840164 Hybrid (Power & Data) Cable, IP65 to IP65, 25 m (82.0 ft.)

VC-Feeder

P/N 90357040 VC-Feeder™

VC-Dot 1 String

P/N 90357060 VC-Dot 1™ RGB, 100 mm (3.9 in.) pitch, 100 pcs., 2 m (6.6 ft.) lead-in
P/N 90357090 VC-Dot 1™ WW, 100 mm (3.9 in.) pitch, 100 pcs., 2 m (6.6 ft.) lead-in
P/N 90357080 VC-Dot 1™ MW, 100 mm (3.9 in.) pitch, 100 pcs., 2 m (6.6 ft.) lead-in
P/N 90357070 VC-Dot 1™ CW, 100 mm (3.9 in.) pitch, 100 pcs., 2 m (6.6 ft.) lead-in

IP65 Cable(s)

Not needed if VC-Feeders are mounted next to each other (<20cm)

VC-Feeder

VC-Dot 1 String

Up to 100 VC-Dot 1's per string

VC-Dot 1 System Diagram

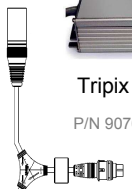
DMX-Mode with Tripix Power IP66

DMX Source

DMX Cable (5-pin XLR)

Tripix Power IP66

P/N 90760330 Tripix™ Power IP66



5-pin XLR + Tripix Power to IP65 Adapter

P/N 11840195 Hybrid (Power & Data) Adapter, 5-pin XLR + Tripix power to IP65, 0.25 m (0.8 ft.)

Up to 200 VC-Dot 1's per daisy-chain

Examples:
2 strings of 100 VC-Dot 1's or
4 strings of 50 VC-Dot 1's or
8 strings of 25 VC-Dot 1's or ...

IP65 Cable(s)

P/N 11840167 Hybrid (Power & Data) Cable, IP65 to IP65, 1 m (3.3 ft.)
P/N 11840168 Hybrid (Power & Data) Cable, IP65 to IP65, 2.5 m (8.2 ft.)
P/N 11840169 Hybrid (Power & Data) Cable, IP65 to IP65, 5 m (16.4 ft.)
P/N 11840170 Hybrid (Power & Data) Cable, IP65 to IP65, 10 m (32.8 ft.)
P/N 11840164 Hybrid (Power & Data) Cable, IP65 to IP65, 25 m (82.0 ft.)

If individual pixel control is required, maximum 170 VC-Dot 1's can be put in a daisy-chain (510 DMX Channels)

Total length of all Hybrid (Power & Date) Cables should be less than 50m
(not including the VC-Dot Strings itself)

VC-Feeder

P/N 90357040 VC-Feeder™

VC-Dot 1 String

P/N 90357060 VC-Dot 1™ RGB, 100 mm (3.9 in.) pitch, 100 pcs., 2 m (6.6 ft.) lead-in
P/N 90357090 VC-Dot 1™ WW, 100 mm (3.9 in.) pitch, 100 pcs., 2 m (6.6 ft.) lead-in
P/N 90357080 VC-Dot 1™ MW, 100 mm (3.9 in.) pitch, 100 pcs., 2 m (6.6 ft.) lead-in
P/N 90357070 VC-Dot 1™ CW, 100 mm (3.9 in.) pitch, 100 pcs., 2 m (6.6 ft.) lead-in

IP65 Cable(s) ← Not needed if VC-Feeders are mounted next to each other (<20cm)

VC-Feeder

VC-Dot 1 String

← Up to 100 VC-Dot 1's per string

VC-Dot 1 System Diagram

DMX-Mode with Generic 48Vdc Power Supply

DMX Source

DMX Cable (5-pin XLR)

48Vdc Power Supply

Taking into account voltage-drops over 50m cable, a string of 100 VC-Dot 1's will consume 120W

Example: A daisy-chain of 6 VC-Dot 1 Strings with 50 Dots each needs a 48V/360W Power Supply

5-pin XLR + Power to IP65 Adapter

P/N 11840174 Hybrid (Power & Data) Adapter, 5-pin XLR + power to IP65, 0.25 m (0.8 ft.)

Up to 300 VC-Dot 1's per daisy-chain

Examples:
3 strings of 100 VC-Dot 1's or
4 strings of 75 VC-Dot 1's or
6 strings of 50 VC-Dot 1's or ...

IP65 Cable(s)

P/N 11840167 Hybrid (Power & Data) Cable, IP65 to IP65, 1 m (3.3 ft.)
P/N 11840168 Hybrid (Power & Data) Cable, IP65 to IP65, 2.5 m (8.2 ft.)
P/N 11840169 Hybrid (Power & Data) Cable, IP65 to IP65, 5 m (16.4 ft.)
P/N 11840170 Hybrid (Power & Data) Cable, IP65 to IP65, 10 m (32.8 ft.)
P/N 11840164 Hybrid (Power & Data) Cable, IP65 to IP65, 25 m (82.0 ft.)

If individual pixel control is required, maximum 170 VC-Dot 1's can be put in a daisy-chain (510 DMX Channels)

Total length of all Hybrid (Power & Date) Cables should be less than 50m

(not including the VC-Dot Strings itself)

VC-Feeder

P/N 90357040 VC-Feeder™

VC-Dot 1 String

P/N 90357060 VC-Dot 1™ RGB, 100 mm (3.9 in.) pitch, 100 pcs., 2 m (6.6 ft.) lead-in
P/N 90357090 VC-Dot 1™ WW, 100 mm (3.9 in.) pitch, 100 pcs., 2 m (6.6 ft.) lead-in
P/N 90357080 VC-Dot 1™ MW, 100 mm (3.9 in.) pitch, 100 pcs., 2 m (6.6 ft.) lead-in
P/N 90357070 VC-Dot 1™ CW, 100 mm (3.9 in.) pitch, 100 pcs., 2 m (6.6 ft.) lead-in

IP65 Cable(s)

Not needed if VC-Feeders are mounted next to each other (<20cm)

VC-Feeder

VC-Dot 1 String

Up to 100 VC-Dot 1's per string