

Back Panel



Box Contents

- ENTTEC PHERO 33
- Mounting brackets (pre-attached)
- This user manual

- Mains power through Powercon connectors for convenient installation
- 50,000+ hours expected LED life
- Up to 99 DMX channels through Pixelator
- Over voltage input protection

Features

- 33 independently controllable RGB Pixels
- Powercon and Ethercon for touring
- Flexible, light and slick design
- In-built Power Supply
- Compatible with ENTTEC Pixelator and Pixie driver
- PLink data bus allows to daisy-chain up to 10 units
- Standard Cat6 wiring allows up to 300m distances

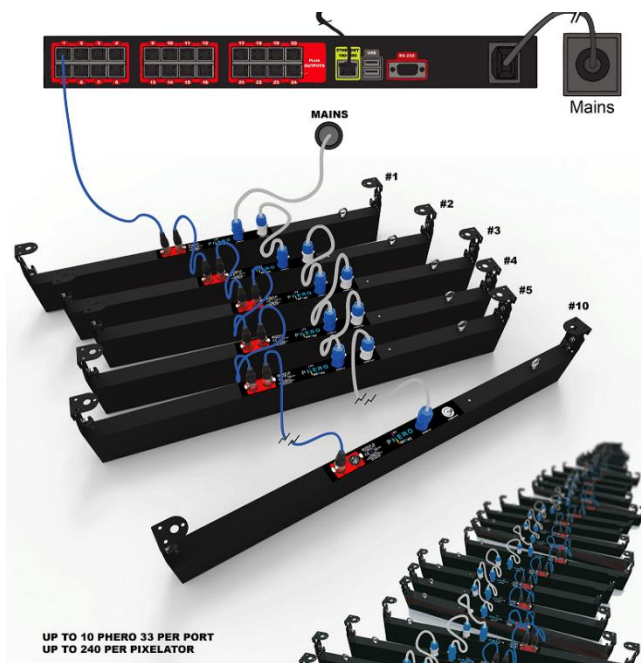
Safety

- Mains voltages inside, please never intend to open it when mains connected
- Do not expose the ENTTEC Phero 33 to rain or moisture, doing this will void the warranty
- Do not remove the cover, there are no serviceable parts inside
- This unit is intended for **indoor use only**
- Ensure proper earth connections

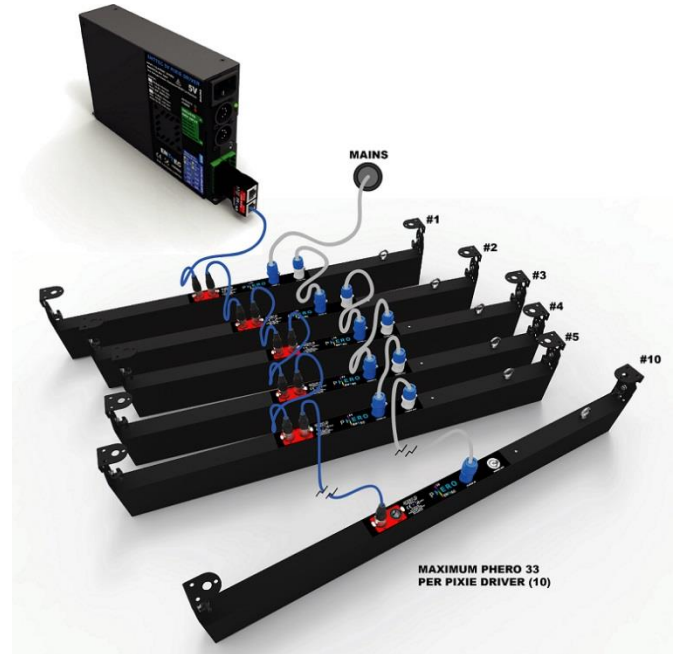
Basic Setup

- Connect the ENTTEC Phero 33 to a Plink enabled device such as ENTTEC Pixelator using a cat5/6 cable
- Power up the unit using the blue powercon connector. The power LED should light up
- Feed some data through your Plink enabled device

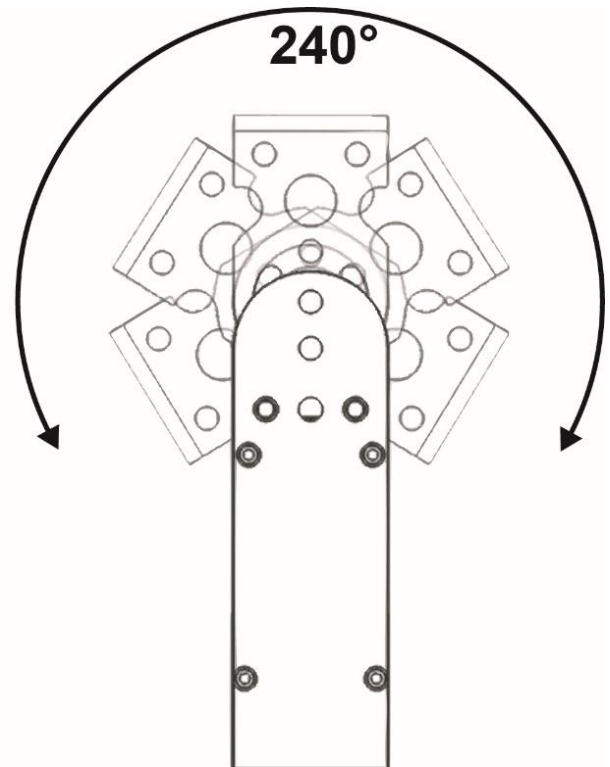
Typical Installation with Pixelator



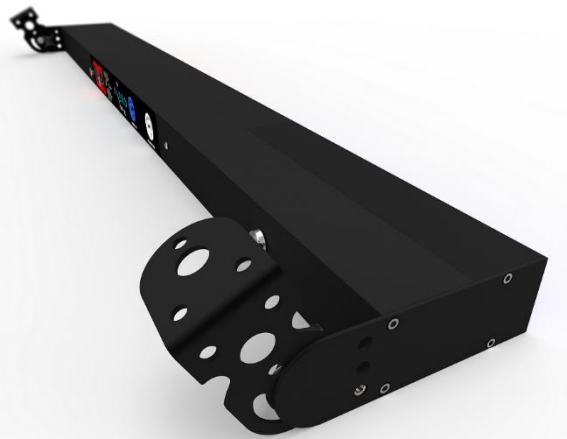
Typical Installation with Pixie Driver



Bracket Rotation



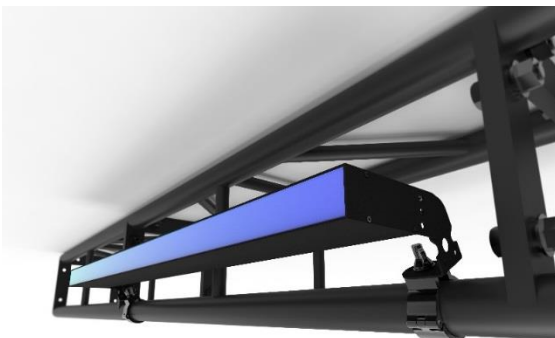
Mounting Brackets (pre-attached)



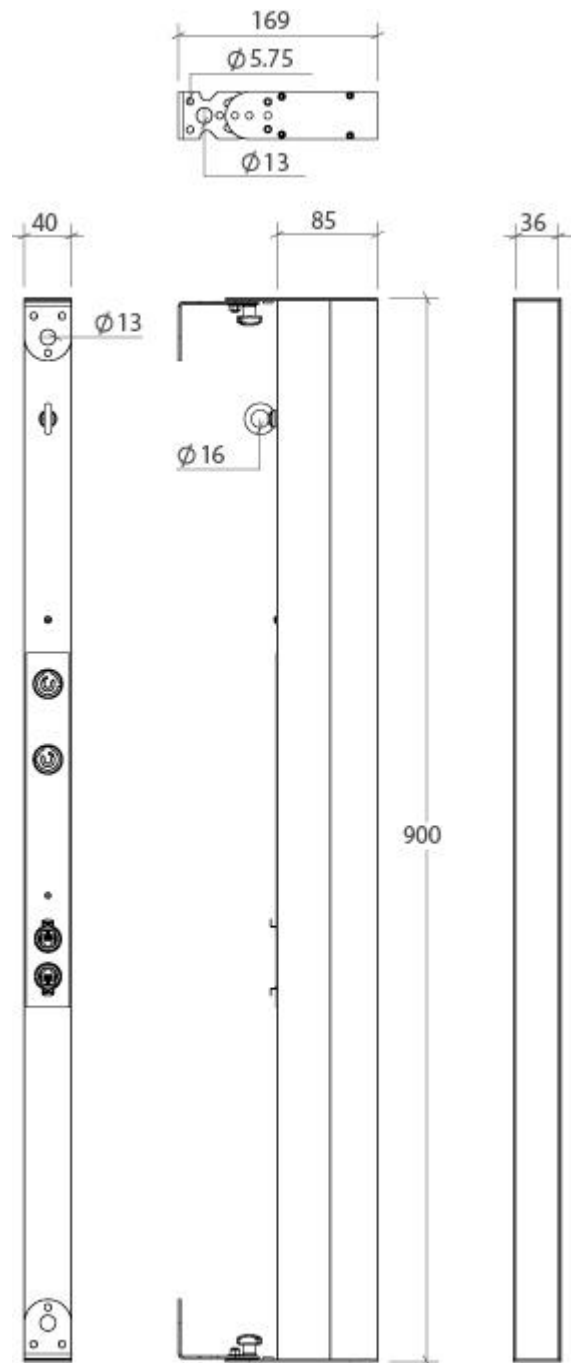
Hanging cable with Gripple (Sold Separately)



Mounting bracket with Standard Truss clamp



Physical Dimensions (in mm)



DMX Addressing

Each Phero 33 contains 33 RGB Pixels, which means 99 DMX slots. By default, the first unit connected to the controller will auto address to DMX channel 1 to 99. Where CH1=Pixel1 Red, CH2=Pixel1 Green, CH3=Pixel1 Blue, CH4=Pixel2 Red and so on.

When Pheros are daisy-chained, the following unit will automatically take the next consecutive DMX slot, for example, the second unit's DMX start address will be 100.

A maximum number of 10 Pheros 33 can be daisy chained per Plink port if using 2 universes mode from the controller.

Please refer to [Annex 1](#) to see a full DMX table of 10 daisy-chained Pheros.

It is possible to change the DMX start address from the controller and all the other pixels will auto-address to the following slot. Please refer to [Pixelator](#) or [Pixie Driver](#) documentation.

Mains Wiring

A maximum of 10 Phero 33 can be powered in Daisy-Chain. Please follow this table to select the best circuit breaker to protect your installation:

Circuit Breaker	240VAC	110VAC
B10	5	8
B16	8	10
C10	8	10
C16	10	10

Technical Specifications

Due to continuous improvements and innovations of all ENTTEC products, specifications and features are subject to change without notice.

Item	73907-900
Max Input Power	25VA
Max Operating Power	18 Watt
Input Voltage	85~264 VAC
Max. input Current	0.4A/230VAC 0.6A/115VAC
Operating Ambient Temperature	0°~40°C
Max Light output (all leds 100%)	101 Lumens
Diffuser options	Frosted, Clear or Black
Viewing Angle	120°

Number of Pixels	33
RGB LEDs per Pixel	2
Pitch (pixels)	28mm
Pitch (LEDs)	14 mm
Number of 5050 LEDs	66 (2xRGB leds per pixel)
Item Weight	2.02 Kg / 4.41 lbs
Packed Weight	2.22 Kg / 4.96 lbs
IP Rating	IP40
Body	Base: Aluminum extrusion Color: Sable Black
Connectors	2x Ethercon, 1x Blue Powercon, 1x Grey Powercon

Ordering Information

Phero 33 and compatible products can be ordered as follows:

PN	Description
73907-900-FD	PHERO 33 PIXEL (900mm) - (100~240VAC) FROSTED DIFFUSER
73907-900-BD	PHERO 33 PIXEL (900mm) - (100~240VAC) BLACK DIFFUSER
73907-900-CD	PHERO 33 PIXEL (900mm) - (100~240VAC) CLEAR DIFFUSER
70060	PIXELATOR
73541	PIXIE DRIVER
73545	PIXIELINKER
70066	PIXELATOR MINI

Registration

Please register your ENTTEC product to get latest software updates and to validate your warranty.

To register, please visit enttec.com/register

enttec.com

MELBOURNE AUS / LONDON UK / RALEIGH-DURHAM USA

ANNEX 1: Phero33 Recommended DMX Patch/Addressing Table (Daisy-Chain)

PHERO DAISY-CHAIN DMX PATCH/ADDRESSING TABLE											
Pixel #	Color	Ph33 # 1	Ph33 # 2	Ph33 # 3	Ph33 # 4	Ph33 # 5	Ph33 # 6	Ph33 # 7	Ph33 # 8	Ph33 # 9	Ph33 # 10
1	Red	1	100	199	298	397	496	85	184	283	382
	Green	2	101	200	299	398	497	86	185	284	383
	Blue	3	102	201	300	399	498	87	186	285	384
2	Red	4	103	202	301	400	499	88	187	286	385
	Green	5	104	203	302	401	500	89	188	287	386
	Blue	6	105	204	303	402	501	90	189	288	387
3	Red	7	106	205	304	403	502	91	190	289	388
	Green	8	107	206	305	404	503	92	191	290	389
	Blue	9	108	207	306	405	504	93	192	291	390
4	Red	10	109	208	307	406	505	94	193	292	391
	Green	11	110	209	308	407	506	95	194	293	392
	Blue	12	111	210	309	408	507	96	195	294	393
5	Red	13	112	211	310	409	508	97	196	295	394
	Green	14	113	212	311	410	509	98	197	296	395
	Blue	15	114	213	312	411	510	99	198	297	396
6	Red	16	115	214	313	412	1	100	199	298	397
	Green	17	116	215	314	413	2	101	200	299	398
	Blue	18	117	216	315	414	3	102	201	300	399
7	Red	19	118	217	316	415	4	103	202	301	400
	Green	20	119	218	317	416	5	104	203	302	401
	Blue	21	120	219	318	417	6	105	204	303	402
8	Red	22	121	220	319	418	7	106	205	304	403
	Green	23	122	221	320	419	8	107	206	305	404
	Blue	24	123	222	321	420	9	108	207	306	405
9	Red	25	124	223	322	421	10	109	208	307	406
	Green	26	125	224	323	422	11	110	209	308	407
	Blue	27	126	225	324	423	12	111	210	309	408
10	Red	28	127	226	325	424	13	112	211	310	409
	Green	29	128	227	326	425	14	113	212	311	410
	Blue	30	129	228	327	426	15	114	213	312	411
11	Red	31	130	229	328	427	16	115	214	313	412
	Green	32	131	230	329	428	17	116	215	314	413
	Blue	33	132	231	330	429	18	117	216	315	414
12	Red	34	133	232	331	430	19	118	217	316	415
	Green	35	134	233	332	431	20	119	218	317	416
	Blue	36	135	234	333	432	21	120	219	318	417
13	Red	37	136	235	334	433	22	121	220	319	418
	Green	38	137	236	335	434	23	122	221	320	419
	Blue	39	138	237	336	435	24	123	222	321	420
14	Red	40	139	238	337	436	25	124	223	322	421
	Green	41	140	239	338	437	26	125	224	323	422
	Blue	42	141	240	339	438	27	126	225	324	423
15	Red	43	142	241	340	439	28	127	226	325	424
	Green	44	143	242	341	440	29	128	227	326	425
	Blue	45	144	243	342	441	30	129	228	327	426
16	Red	46	145	244	343	442	31	130	229	328	427
	Green	47	146	245	344	443	32	131	230	329	428
	Blue	48	147	246	345	444	33	132	231	330	429

17	Red	49	148	247	346	445	34	133	232	331	430
	Green	50	149	248	347	446	35	134	233	332	431
	Blue	51	150	249	348	447	36	135	234	333	432
18	Red	52	151	250	349	448	37	136	235	334	433
	Green	53	152	251	350	449	38	137	236	335	434
	Blue	54	153	252	351	450	39	138	237	336	435
19	Red	55	154	253	352	451	40	139	238	337	436
	Green	56	155	254	353	452	41	140	239	338	437
	Blue	57	156	255	354	453	42	141	240	339	438
20	Red	58	157	256	355	454	43	142	241	340	439
	Green	59	158	257	356	455	44	143	242	341	440
	Blue	60	159	258	357	456	45	144	243	342	441
21	Red	61	160	259	358	457	46	145	244	343	442
	Green	62	161	260	359	458	47	146	245	344	443
	Blue	63	162	261	360	459	48	147	246	345	444
22	Red	64	163	262	361	460	49	148	247	346	445
	Green	65	164	263	362	461	50	149	248	347	446
	Blue	66	165	264	363	462	51	150	249	348	447
23	Red	67	166	265	364	463	52	151	250	349	448
	Green	68	167	266	365	464	53	152	251	350	449
	Blue	69	168	267	366	465	54	153	252	351	450
24	Red	70	169	268	367	466	55	154	253	352	451
	Green	71	170	269	368	467	56	155	254	353	452
	Blue	72	171	270	369	468	57	156	255	354	453
25	Red	73	172	271	370	469	58	157	256	355	454
	Green	74	173	272	371	470	59	158	257	356	455
	Blue	75	174	273	372	471	60	159	258	357	456
26	Red	76	175	274	373	472	61	160	259	358	457
	Green	77	176	275	374	473	62	161	260	359	458
	Blue	78	177	276	375	474	63	162	261	360	459
27	Red	79	178	277	376	475	64	163	262	361	460
	Green	80	179	278	377	476	65	164	263	362	461
	Blue	81	180	279	378	477	66	165	264	363	462
28	Red	82	181	280	379	478	67	166	265	364	463
	Green	83	182	281	380	479	68	167	266	365	464
	Blue	84	183	282	381	480	69	168	267	366	465
29	Red	85	184	283	382	481	70	169	268	367	466
	Green	86	185	284	383	482	71	170	269	368	467
	Blue	87	186	285	384	483	72	171	270	369	468
30	Red	88	187	286	385	484	73	172	271	370	469
	Green	89	188	287	386	485	74	173	272	371	470
	Blue	90	189	288	387	486	75	174	273	372	471
31	Red	91	190	289	388	487	76	175	274	373	472
	Green	92	191	290	389	488	77	176	275	374	473
	Blue	93	192	291	390	489	78	177	276	375	474
32	Red	94	193	292	391	490	79	178	277	376	475
	Green	95	194	293	392	491	80	179	278	377	476
	Blue	96	195	294	393	492	81	180	279	378	477
33	Red	97	196	295	394	493	82	181	280	379	478
	Green	98	197	296	395	494	83	182	281	380	479
	Blue	99	198	297	396	495	84	183	282	381	480