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## Luxbird Digital Thermostat Controller Combo Set B0BMLSHRPS

# LUXBIRD 10"x 20.75" Seedling Heat Mat and Digital Thermostat Controller Combo Set User Manual

Brand: Luxbird

## 1. INTRODUCTION

This manual provides essential information for the safe and effective use of your LUXBIRD 10"x 20.75" Seedling Heat Mat and Digital Thermostat Controller Combo Set. This product is designed to optimize conditions for seedling growth by providing controlled warmth to the rooting area. Please read all instructions carefully before operation.

## 2. PRODUCT COMPONENTS

Your LUXBIRD combo set includes the following items:

- Two (2) 10" x 20.75" Seedling Heating Mats
- One (1) Digital Thermostat Controller (120v US Plug)
- Two (2) Sensor Probes



Figure 1: Overview of the LUXBIRD Seedling Heat Mat and Digital Thermostat Controller Combo Set, showing two heat mats, one controller, and two sensor probes.

### 3. SETUP INSTRUCTIONS

- 1. Placement of Heat Mat:** Place the heating mat on a well-drained surface, ensuring no standing water. For optimal performance, place the mat on an insulated surface rather than directly on a cold floor.
- 2. Connect Controller:** Plug the heating mats into the 'WORK1' and 'WORK2' sockets on the digital thermostat controller.
- 3. Insert Sensor Probes:** Insert the sensor probes into the rooting area of your plant trays. The probes should be placed directly into the soil or growing medium to accurately monitor temperature.
- 4. Power Connection:** Plug the digital thermostat controller into a standard 120V US power outlet.

# Simultaneously Controls Two Heating Mats

0°C~45°C / 32°F~113°F



Figure 2: The digital thermostat controller connected to two heat mats, ready for use with plant trays.

## 4. OPERATING INSTRUCTIONS

### 4.1. Digital Thermostat Controller

The digital thermostat controller allows precise temperature management for your seedling heat mats. It features a display for current temperature and set temperature, along with buttons for adjustment.

## LUXBIRD HEAT MATS & CONTROLLER COMBO



Automatic  
Temp. Control



High/Low  
Temp. Alarm



Wide Range of  
Applications



Safety Certified  
Product



Figure 3: The digital thermostat controller displaying temperature readings.

### 4.2. Setting Temperature

The temperature control range is 32.0°F (0°C) to 113°F (45°C). The controller can maintain the root area temperature at 86°F (30°C) to 104°F (40°C) when the ambient temperature is around 68°F (20°C).

- Press the 'SET' button to enter temperature setting mode.
- Use the 'UP' and 'DOWN' arrows to adjust the desired temperature.
- Press 'SET' again to confirm and exit setting mode.

The controller provides real-time monitoring of the detected temperature via the probe and displays the heating status. It will alert you if the detected temperature exceeds safe limits.

### 4.3. Official Product Videos

Video 1: Demonstrates the features and operation of the LB-2SC Digital Thermostat Controller.

Video 2: Provides an overview of the Luxbird LB-HM21W Heat Mat, highlighting its design and functionality.

## 5. TEMPERATURE SETTINGS AND GERMINATION CHART

The heat mat is designed to raise rooting area temperatures approximately 10-20°F (5-11°C) above

ambient air temperature. Covering your plant tray with a humidity cover or dome will also help maintain root area warmth and humidity for better rooting.

## Soft, Even, and Stable Heat



Increase plant survival rate

Promote plant growth

Let plants grow vigorously



Figure 4: Illustration showing soft, even, and stable heat distribution from the heat mat, promoting plant growth. The product includes a germination chart printed on the mat itself, providing approximate days to germination for various plants at optimal temperatures (70-85°F / 24-30°C).

Power: 21 Watts 20.75 inches

Seedling Heat Mat

AC120V 60Hz 21Watts

Length: Average Temp. (°F) Average Days to Germination

10" 57-70 10-12

12" 60-70 10-12

14" 63-70 10-12

16" 66-70 10-12

18" 69-70 10-12

20" 70-72 10-12

22" 72-74 10-12

24" 74-76 10-12

26" 76-78 10-12

28" 78-80 10-12

30" 80-82 10-12

32" 82-84 10-12

34" 84-86 10-12

36" 86-88 10-12

38" 88-90 10-12

40" 90-92 10-12

42" 92-94 10-12

44" 94-96 10-12

46" 96-98 10-12

48" 98-100 10-12

50" 100-102 10-12

52" 102-104 10-12

54" 104-106 10-12

56" 106-108 10-12

58" 108-110 10-12

60" 110-112 10-12

62" 112-114 10-12

64" 114-116 10-12

66" 116-118 10-12

68" 118-120 10-12

70" 120-122 10-12

72" 122-124 10-12

74" 124-126 10-12

76" 126-128 10-12

78" 128-130 10-12

80" 130-132 10-12

82" 132-134 10-12

84" 134-136 10-12

86" 136-138 10-12

88" 138-140 10-12

90" 140-142 10-12

92" 142-144 10-12

94" 144-146 10-12

96" 146-148 10-12

98" 148-150 10-12

100" 150-152 10-12

102" 152-154 10-12

104" 154-156 10-12

106" 156-158 10-12

108" 158-160 10-12

110" 160-162 10-12

112" 162-164 10-12

114" 164-166 10-12

116" 166-168 10-12

118" 168-170 10-12

120" 170-172 10-12

122" 172-174 10-12

124" 174-176 10-12

126" 176-178 10-12

128" 178-180 10-12

130" 180-182 10-12

132" 182-184 10-12

134" 184-186 10-12

136" 186-188 10-12

138" 188-190 10-12

140" 190-192 10-12

142" 192-194 10-12

144" 194-196 10-12

146" 196-198 10-12

148" 198-200 10-12

150" 200-202 10-12

152" 202-204 10-12

154" 204-206 10-12

156" 206-208 10-12

158" 208-210 10-12

160" 210-212 10-12

162" 212-214 10-12

164" 214-216 10-12

166" 216-218 10-12

168" 218-220 10-12

170" 220-222 10-12

172" 222-224 10-12

174" 224-226 10-12

176" 226-228 10-12

178" 228-230 10-12

180" 230-232 10-12

182" 232-234 10-12

184" 234-236 10-12

186" 236-238 10-12

188" 238-240 10-12

190" 240-242 10-12

192" 242-244 10-12

194" 244-246 10-12

196" 246-248 10-12

198" 248-250 10-12

200" 250-252 10-12

202" 252-254 10-12

204" 254-256 10-12

206" 256-258 10-12

208" 258-260 10-12

210" 260-262 10-12

212" 262-264 10-12

214" 264-266 10-12

216" 266-268 10-12

218" 268-270 10-12

220" 270-272 10-12

222" 272-274 10-12

224" 274-276 10-12

226" 276-278 10-12

228" 278-280 10-12

230" 280-282 10-12

232" 282-284 10-12

234" 284-286 10-12

236" 286-288 10-12

238" 288-290 10-12

240" 290-292 10-12

242" 292-294 10-12

244" 294-296 10-12

246" 296-298 10-12

248" 298-300 10-12

250" 300-302 10-12

252" 302-304 10-12

254" 304-306 10-12

256" 306-308 10-12

258" 308-310 10-12

260" 310-312 10-12

262" 312-314 10-12

264" 314-316 10-12

266" 316-318 10-12

268" 318-320 10-12

270" 320-322 10-12

272" 322-324 10-12

274" 324-326 10-12

276" 326-328 10-12

278" 328-330 10-12

280" 330-332 10-12

282" 332-334 10-12

284" 334-336 10-12

286" 336-338 10-12

288" 338-340 10-12

290" 340-342 10-12

292" 342-344 10-12

294" 344-346 10-12

296" 346-348 10-12

298" 348-350 10-12

300" 350-352 10-12

302" 352-354 10-12

304" 354-356 10-12

306" 356-358 10-12

308" 358-360 10-12

310" 360-362 10-12

312" 362-364 10-12

314" 364-366 10-12

316" 366-368 10-12

318" 368-370 10-12

320" 370-372 10-12

322" 372-374 10-12

324" 374-376 10-12

326" 376-378 10-12

328" 378-380 10-12

330" 380-382 10-12

332" 382-384 10-12

334" 384-386 10-12

336" 386-388 10-12

338" 388-390 10-12

340" 390-392 10-12

342" 392-394 10-12

344" 394-396 10-12

346" 396-398 10-12

348" 398-400 10-12

350" 400-402 10-12

352" 402-404 10-12

354" 404-406 10-12

356" 406-408 10-12

358" 408-410 10-12

360" 410-412 10-12

362" 412-414 10-12

364" 414-416 10-12

366" 416-418 10-12

368" 418-420 10-12

370" 420-422 10-12

372" 422-424 10-12

374" 424-426 10-12

376" 426-428 10-12

378" 428-430 10-12

380" 430-432 10-12

382" 432-434 10-12

384" 434-436 10-12

386" 436-438 10-12

388" 438-440 10-12

390" 440-442 10-12

392" 442-444 10-12

394" 444-446 10-12

396" 446-448 10-12

398" 448-450 10-12

400" 450-452 10-12

402" 452-454 10-12

404" 454-456 10-12

406" 456-458 10-12

408" 458-460 10-12

410" 460-462 10-12

412" 462-464 10-12

414" 464-466 10-12

416" 466-468 10-12

418" 468-470 10-12

420" 470-472 10-12

422" 472-474 10-12

424" 474-476 10-12

426" 476-478 10-12

# Alarm for Safe

The thermostat controller features a high-and-low temperature alarm and probe abnormality alarm to ensure safe use.



Figure 6: The thermostat controller features a high- and low-temperature alarm and probe abnormality alarm to ensure safe use.

## 7. MAINTENANCE

The heat mat adopts heavy-duty PVC material for its outer layer and IP67-grade waterproof material, making it resistant to splashing and spraying. This design facilitates easy washing and wiping for cleaning.

- **Cleaning:** After each use, wipe down the heat mat with a damp cloth. Ensure the mat is completely dry before storing.
- **Storage:** The mat is foldable for easy storage. Keep the heating pad away from sharp objects when using or storing.

## Premium Precision Probes



Figure 7: The IP67 waterproof rating ensures the heat mat is splash-proof, dust-proof, and easy to clean.

## 8. TROUBLESHOOTING

If you experience issues with your heat mat or thermostat controller, consider the following general troubleshooting steps:

- **No Heat/Uneven Heating:** Ensure the mat is placed on an insulated surface. Check all power connections. Verify the sensor probe is correctly inserted into the soil.
- **Temperature Inaccuracy:** Ensure the sensor probe is fully inserted into the medium you wish to measure. Calibrate the probe if necessary (refer to the thermostat's specific instructions for calibration range, typically -4.9°C to 4.9°C or -9.9°F to 9.9°F).
- **Controller Malfunction:** If the controller displays error codes or behaves unexpectedly, unplug it from the power source, wait a few minutes, and plug it back in. If the issue persists, contact customer support.

# Upgraded PVC Heating Mats



Figure 8: Precision probes offer accurate temperature measurement and calibration capabilities.

## 9. SPECIFICATIONS

Feature	Detail
Model Number	B0BMLSHRPS
Heat Mat Dimensions	10" x 20.75"
Input/Output Voltage	120V US Plug
Power (Heat Mat)	21 Watts (per mat)
Max Load (Controller)	500W Max
Temperature Control Range	32.0°F ~ 113°F (0°C ~ 45°C)
Probe Length	2m / 6.5ft
Waterproof Rating	IP67
Package Dimensions	10.91 x 5.71 x 4.21 inches

Item Weight	2.4 pounds
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## **10. WARRANTY AND SUPPORT**

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For warranty information, technical support, or any product-related inquiries, please refer to the documentation included with your product or contact Luxbird customer service directly. Keep your purchase receipt for warranty claims.