

# Composants Harpe Laser

Laser + galva scanner

Laser 200mW	<a href="https://fr.aliexpress.com/item/32893528039.html?spm=a2g0s.9042311.0.0.5ff56c37wtCsZB">https://fr.aliexpress.com/item/32893528039.html?spm=a2g0s.9042311.0.0.5ff56c37wtCsZB</a>
Galvo scanner (20KPPS minimum)	<a href="https://www.ebay.fr/itm/20KPPS-30KPPS-Galvo-Scanner-Galvanometer-For-Light-Show-Stage-Lighting-Laser/183963094576?ssPageName=STRK%3AMEBIDX%3AIT&amp;_trksid=p2057872.m2748.l2649">https://www.ebay.fr/itm/20KPPS-30KPPS-Galvo-Scanner-Galvanometer-For-Light-Show-Stage-Lighting-Laser/183963094576?ssPageName=STRK%3AMEBIDX%3AIT&amp;_trksid=p2057872.m2748.l2649</a>
TL082 Ampli Op	<a href="https://www.gotronic.fr/art-tl082-10640.htm">https://www.gotronic.fr/art-tl082-10640.htm</a>
MCP4725	<a href="https://www.gotronic.fr/art-module-convertisseur-dac-mcp4725-20136.htm">https://www.gotronic.fr/art-module-convertisseur-dac-mcp4725-20136.htm</a>
Potentiomet re de précision 10K	<a href="https://www.gotronic.fr/art-ajustable-t18-10k-8486-3123.htm">https://www.gotronic.fr/art-ajustable-t18-10k-8486-3123.htm</a>
Potentiomet re de précision 47K	<a href="https://www.gotronic.fr/art-ajustable-t18-47k-8486-3125.htm">https://www.gotronic.fr/art-ajustable-t18-47k-8486-3125.htm</a>
Résistances (valeur à définir)	Amazon

Sensor V1

LM393	<a href="https://www.gotronic.fr/art-lm393n-10322.htm">https://www.gotronic.fr/art-lm393n-10322.htm</a>
TAOS TSL257	<a href="https://www.ebay.fr/itm/TSL257-LF-SENSOR-LIGHT-VOLTAGE-CONVERTER/291760984823?trkparms=ispr%3D1&amp;hash=item43ee4f52f7%3Ag%3AKeoAAOSw3mpXmTOi&amp;amdata=enc%3AAQAFAAAAcBaobriLl8XobRIiIMLlV4Imu%252Fn%252BzU5L90Z278x5ickkvjzWOSTkxwnlDuxSIIPVVk2XVPSqL47QeKQLLg0qrhKRYQkVKp2h73WSGWT8aD1%252BbuCpUWpPMkXo0mmuZNmVuxCCEJ4ONoKmRilpxXlkIiYL7%252FrIzrflrQ8zqivaN1k3u1vXP%252F5vlCMjgAKNn6JV5OpX6JdSu3zG9IkF4ZsXFaLGI1X0doKHjVpTXmE8RBca%252B%252F4y6kGv9ejVHsODCPBKhymRS%252B1bifFTvLhjhkrHv5m3MPu8BPYlkW5oFZihPJhDSc%252BWK3RIP%252FszOpjoOvYtRPI3cqeO%252BjYp212yC0zLKFGZLRG%252BbSiVnI%252FAj5RRYcCEQwkYA6%252BcjFdE2F9fZmFWFs5ISOuR4O0w4q34a%252BAYBMnWplh5nthYLV8DXY6hM1OvJxlbST13PIWvItESmo%252Bfh9MOpnAUP8vcOyOoKuarBsO7vrZxsKoOvZRSFXpFUI1JpgV9za9OapiAFxUROWG2vxKo7Oyt07%252FzlGPv7AWmNphJzFgSrQGMcBP8cc8Mb6z%252Bxl0mDu%252B51bifQSHA3L0448HDII9iXWZg%252B2iiRQTHEILHqOrlczjTJX6Li%252BXwnFvnEug12yBbbrIAogYtnBFSVNMlu85QX1rvVJRlhNvL6fk%252BKDTQVgWsNkV5p1ilq6mXm1jLtrvtU8FNZ80BYxSVRSVIG1gPITUrSnzKq0UpjdzO%252BFKUwgR90NH%252BWQKyIOkwNevASQvUfI66alnTl3vfCBYODUDJ8K8BzlvOBqAM5tyL3zoxvYH63w1BKEfbxkTM%252BY6uzudn%252FNIWmWsWsfJkNc2LADMS8%252D%252F7Ceksum%3A29176098482313ec09f07e1244f79b6778c0df9a06%252B%252BAPLCLK%252B%252F7Cclp%3A2334524&amp;fbclid=IwAR3dVEq-UnD0u-YjYReK6F5kJW2JfpVr35BmHeu9nBHFS4nMNX-EOQvPQv">https://www.ebay.fr/itm/TSL257-LF-SENSOR-LIGHT-VOLTAGE-CONVERTER/291760984823?trkparms=ispr%3D1&amp;hash=item43ee4f52f7%3Ag%3AKeoAAOSw3mpXmTOi&amp;amdata=enc%3AAQAFAAAAcBaobriLl8XobRIiIMLlV4Imu%252Fn%252BzU5L90Z278x5ickkvjzWOSTkxwnlDuxSIIPVVk2XVPSqL47QeKQLLg0qrhKRYQkVKp2h73WSGWT8aD1%252BbuCpUWpPMkXo0mmuZNmVuxCCEJ4ONoKmRilpxXlkIiYL7%252FrIzrflrQ8zqivaN1k3u1vXP%252F5vlCMjgAKNn6JV5OpX6JdSu3zG9IkF4ZsXFaLGI1X0doKHjVpTXmE8RBca%252B%252F4y6kGv9ejVHsODCPBKhymRS%252B1bifFTvLhjhkrHv5m3MPu8BPYlkW5oFZihPJhDSc%252BWK3RIP%252FszOpjoOvYtRPI3cqeO%252BjYp212yC0zLKFGZLRG%252BbSiVnI%252FAj5RRYcCEQwkYA6%252BcjFdE2F9fZmFWFs5ISOuR4O0w4q34a%252BAYBMnWplh5nthYLV8DXY6hM1OvJxlbST13PIWvItESmo%252Bfh9MOpnAUP8vcOyOoKuarBsO7vrZxsKoOvZRSFXpFUI1JpgV9za9OapiAFxUROWG2vxKo7Oyt07%252FzlGPv7AWmNphJzFgSrQGMcBP8cc8Mb6z%252Bxl0mDu%252B51bifQSHA3L0448HDII9iXWZg%252B2iiRQTHEILHqOrlczjTJX6Li%252BXwnFvnEug12yBbbrIAogYtnBFSVNMlu85QX1rvVJRlhNvL6fk%252BKDTQVgWsNkV5p1ilq6mXm1jLtrvtU8FNZ80BYxSVRSVIG1gPITUrSnzKq0UpjdzO%252BFKUwgR90NH%252BWQKyIOkwNevASQvUfI66alnTl3vfCBYODUDJ8K8BzlvOBqAM5tyL3zoxvYH63w1BKEfbxkTM%252BY6uzudn%252FNIWmWsWsfJkNc2LADMS8%252D%252F7Ceksum%3A29176098482313ec09f07e1244f79b6778c0df9a06%252B%252BAPLCLK%252B%252F7Cclp%3A2334524&amp;fbclid=IwAR3dVEq-UnD0u-YjYReK6F5kJW2JfpVr35BmHeu9nBHFS4nMNX-EOQvPQv</a>
Potentio metre 10K	<a href="https://www.gotronic.fr/art-potentiometre-lineaire-10k-937-11108.htm">https://www.gotronic.fr/art-potentiometre-lineaire-10k-937-11108.htm</a>
Résistan ce 1K	<a href="https://www.amazon.fr/ELEGOO-R%C3%A9sistance-Electroniques-Exp%C3%A9rimental-Exp%C3%A9rimental/dp/B071LHFQKD/ref=sr_1_7?mk_fr_FR=%C3%85M%C3%85%C5BD%C3%95%C3%91&amp;crid=3V621EZLSI6YE&amp;dchild=1&amp;keywords=r%C3%A9sistance+1k+ohm&amp;qid=1610059350&amp;refinements=p_76%3A437878031&amp;rnid=437877031&amp;rps=1&amp;srefix=r%C3%A9sistance+1k%2Caps%2C182&amp;sr=8-7">https://www.amazon.fr/ELEGOO-R%C3%A9sistance-Electroniques-Exp%C3%A9rimental-Exp%C3%A9rimental/dp/B071LHFQKD/ref=sr_1_7?mk_fr_FR=%C3%85M%C3%85%C5BD%C3%95%C3%91&amp;crid=3V621EZLSI6YE&amp;dchild=1&amp;keywords=r%C3%A9sistance+1k+ohm&amp;qid=1610059350&amp;refinements=p_76%3A437878031&amp;rnid=437877031&amp;rps=1&amp;srefix=r%C3%A9sistance+1k%2Caps%2C182&amp;sr=8-7</a>

Autre

Arduino UNO (prévoir alim9V)	<a href="https://www.amazon.fr/Arduino-A000066-M%C3%A9moire-flash-32/dp/B008GRTSV6/ref=sxsts_sxwds-bia-wc-nc-drs1_0?_mk_fr_FR=%C3%85M%C3%85%C5%BD%C3%95%C3%91&amp;cv_ct_cx=arduino+UNO&amp;dchild=1&amp;keywords=arduino+UNO&amp;pd_rd_i=B008GRTSV6&amp;pd_rd_r=58e3e60a-a35a-4ae0-b67e-7199264786ee&amp;pd_rd_w=6GoHp&amp;pd_rd_wg=HLr33&amp;pf_rd_p=ad1b8e61-7ccc-48d1-8b02-9f100bc5dad0&amp;pf_rd_r=B7YE18M0SHFYCJS4PJK&amp;pvc=1&amp;qid=1610059464&amp;quartzVehicle=35-481&amp;replacementKeywords=arduino&amp;sr=1-1-606822b7-04c2-4c74-a611-acbe80e94641">https://www.amazon.fr/Arduino-A000066-M%C3%A9moire-flash-32/dp/B008GRTSV6/ref=sxsts_sxwds-bia-wc-nc-drs1_0?_mk_fr_FR=%C3%85M%C3%85%C5%BD%C3%95%C3%91&amp;cv_ct_cx=arduino+UNO&amp;dchild=1&amp;keywords=arduino+UNO&amp;pd_rd_i=B008GRTSV6&amp;pd_rd_r=58e3e60a-a35a-4ae0-b67e-7199264786ee&amp;pd_rd_w=6GoHp&amp;pd_rd_wg=HLr33&amp;pf_rd_p=ad1b8e61-7ccc-48d1-8b02-9f100bc5dad0&amp;pf_rd_r=B7YE18M0SHFYCJS4PJK&amp;pvc=1&amp;qid=1610059464&amp;quartzVehicle=35-481&amp;replacementKeywords=arduino&amp;sr=1-1-606822b7-04c2-4c74-a611-acbe80e94641</a>
Plaque montage rapide	<a href="https://www.gotronic.fr/art-plaque-de-montage-rapide-17706.htm">https://www.gotronic.fr/art-plaque-de-montage-rapide-17706.htm</a>
Cable USB vers MIDI	<a href="https://www.amazon.fr/LogiLink-UA0037-Adaptateur-vers-MIDI/dp/B000XRI3CC">https://www.amazon.fr/LogiLink-UA0037-Adaptateur-vers-MIDI/dp/B000XRI3CC</a>
Connecteur Alimentation ATX	<a href="https://www.amazon.fr/gp/product/B0787JCGL3/ref=ppx_yo_dt_b_asin_title_o00_s00?ie=UTF8&amp;pvc=1">https://www.amazon.fr/gp/product/B0787JCGL3/ref=ppx_yo_dt_b_asin_title_o00_s00?ie=UTF8&amp;pvc=1</a>
Alim 9V arduino	<a href="https://www.amazon.fr/gp/product/B00MVLJ6NI/ref=ppx_yo_dt_b_asin_title_o06_s00?ie=UTF8&amp;pvc=1">https://www.amazon.fr/gp/product/B00MVLJ6NI/ref=ppx_yo_dt_b_asin_title_o06_s00?ie=UTF8&amp;pvc=1</a>
Support Circuit intégré	<a href="https://www.amazon.fr/gp/product/B07PNG6P8H/ref=ppx_yo_dt_b_asin_title_o02_s01?ie=UTF8&amp;pvc=1">https://www.amazon.fr/gp/product/B07PNG6P8H/ref=ppx_yo_dt_b_asin_title_o02_s01?ie=UTF8&amp;pvc=1</a>
Interrupteur à clef (2 positions, longueur au choix en fonction du boîtier fabriqué)	<a href="https://fr.aliexpress.com/item/32850175766.html?spm=a2g0s.9042311.0.0.4a246c37RyV6ik">https://fr.aliexpress.com/item/32850175766.html?spm=a2g0s.9042311.0.0.4a246c37RyV6ik</a>