SM1000
Videographic recorder
Spare parts and upgrade kits

Measurement made easy

Introduction

This parts list contains:
• exploded diagrams of the SM1000 videographic recorder for easy identification of spare parts
• details of product upgrade kits that are designed to add extra features and functionality to the recorder
• ancillary parts information.
Replacement parts

Parts list – Figure 1 to Figure 3.

Figure 1  Identification of parts – chassis components (pre July 2011)
<table>
<thead>
<tr>
<th>Item No.</th>
<th>Description</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Media door lock keys</td>
<td>No longer available</td>
</tr>
<tr>
<td>2</td>
<td>Media door seal</td>
<td>No longer available</td>
</tr>
<tr>
<td>3</td>
<td>Media door replacement kit (includes Items 2, 4, 42, 43 and 44)</td>
<td>No longer available</td>
</tr>
<tr>
<td>4</td>
<td>Media door hinge</td>
<td>B11786</td>
</tr>
<tr>
<td>5</td>
<td>Membrane switch sub assembly</td>
<td>No longer available</td>
</tr>
<tr>
<td>6</td>
<td>Top cover</td>
<td>No longer available</td>
</tr>
<tr>
<td>7</td>
<td>Rubber spacer</td>
<td>No longer available</td>
</tr>
<tr>
<td>8</td>
<td>PCB locking bar</td>
<td>No longer available</td>
</tr>
<tr>
<td>9</td>
<td>Mainboard assembly</td>
<td>GR2000/0356</td>
</tr>
<tr>
<td>10</td>
<td>Real-time clock battery</td>
<td>No longer available</td>
</tr>
<tr>
<td>11</td>
<td>6-channel analog input board</td>
<td>GR2000/0295</td>
</tr>
<tr>
<td></td>
<td>6-channel high specification analog input board</td>
<td>GR2000/0535</td>
</tr>
<tr>
<td></td>
<td>3-relay board</td>
<td>No longer available</td>
</tr>
<tr>
<td></td>
<td>6-relay board</td>
<td>GR2000/0325</td>
</tr>
<tr>
<td></td>
<td>Hybrid Board</td>
<td>GR2000/0335</td>
</tr>
<tr>
<td></td>
<td>Ethernet communications board</td>
<td>GR2000/0435</td>
</tr>
<tr>
<td></td>
<td>RS485 communications board</td>
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</tr>
<tr>
<td></td>
<td>Transmitter power supply board</td>
<td>GR2000/0365</td>
</tr>
<tr>
<td>12</td>
<td>Plastic snap rivet</td>
<td>No longer available</td>
</tr>
<tr>
<td>13</td>
<td>Display replacement kit</td>
<td>No longer available</td>
</tr>
<tr>
<td>14</td>
<td>Inverter isolator</td>
<td>No longer available</td>
</tr>
<tr>
<td>15</td>
<td>Plastic snap rivet</td>
<td>No longer available</td>
</tr>
<tr>
<td>16</td>
<td>Inverter replacement kit</td>
<td>No longer available</td>
</tr>
<tr>
<td>17</td>
<td>Plastic snap rivet</td>
<td>No longer available</td>
</tr>
<tr>
<td>18</td>
<td>Display bracket</td>
<td>No longer available</td>
</tr>
<tr>
<td>19</td>
<td>Earth spring</td>
<td>No longer available</td>
</tr>
<tr>
<td>20</td>
<td>Inverter cable</td>
<td>No longer available</td>
</tr>
<tr>
<td>21</td>
<td>Frame</td>
<td>No longer available</td>
</tr>
<tr>
<td>22</td>
<td>Motherboard replacement kit (includes item 34)</td>
<td>No longer available</td>
</tr>
<tr>
<td>23</td>
<td>Ribbon cable</td>
<td>No longer available</td>
</tr>
<tr>
<td>24</td>
<td>Side plate</td>
<td>No longer available</td>
</tr>
<tr>
<td>25</td>
<td>Cable FFC 50-way</td>
<td>No longer available</td>
</tr>
<tr>
<td>26</td>
<td>Bottom plate</td>
<td>No longer available</td>
</tr>
<tr>
<td>27</td>
<td>Compact Flash trim</td>
<td>No longer available</td>
</tr>
<tr>
<td></td>
<td>Blank media trim</td>
<td>No longer available</td>
</tr>
<tr>
<td>28</td>
<td>Hexagonal spacer</td>
<td>No longer available</td>
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<tr>
<td>29</td>
<td>Conductive gasket</td>
<td>No longer available</td>
</tr>
<tr>
<td>30</td>
<td>Conductive gasket clamp</td>
<td>No longer available</td>
</tr>
<tr>
<td>31</td>
<td>Blank media board</td>
<td>No longer available</td>
</tr>
<tr>
<td></td>
<td>Compact flash board</td>
<td>GR2000/0345</td>
</tr>
<tr>
<td>32</td>
<td>Plastic snap rivet</td>
<td>No longer available</td>
</tr>
<tr>
<td>33</td>
<td>Configurator board assembly</td>
<td>No longer available</td>
</tr>
<tr>
<td>34</td>
<td>Plastic snap rivet</td>
<td>No longer available</td>
</tr>
<tr>
<td>35</td>
<td>Spacer</td>
<td>No longer available</td>
</tr>
<tr>
<td>36</td>
<td>Plastic snap rivet</td>
<td>No longer available</td>
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<tr>
<td>37</td>
<td>Plastic snap rivet</td>
<td>No longer available</td>
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<tr>
<td>38</td>
<td>Display flexi circuit</td>
<td>No longer available</td>
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<tr>
<td>39</td>
<td>Jacking screw clip</td>
<td>No longer available</td>
</tr>
<tr>
<td>40</td>
<td>Frame clamp left hand</td>
<td>No longer available</td>
</tr>
<tr>
<td></td>
<td>Frame clamp right hand</td>
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<tr>
<td>41</td>
<td>Jacking screw</td>
<td>No longer available</td>
</tr>
<tr>
<td>42</td>
<td>Media door latch</td>
<td>No longer available</td>
</tr>
<tr>
<td>43</td>
<td>Media door latch spring</td>
<td>No longer available</td>
</tr>
<tr>
<td>44</td>
<td>Latch retainer</td>
<td>No longer available</td>
</tr>
</tbody>
</table>

Table 1  Parts list – chassis components (pre July 2011)
...Replacement parts

Figure 2  Identification of parts – chassis components (post July 2011)
<table>
<thead>
<tr>
<th>Item No.</th>
<th>Description</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Media door lock keys</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Media door seal</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Media door replacement kit (includes Items 2, 4, 35, 36 and 37)</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Media door hinge</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Membrane switch sub assembly (includes media door and items 32)</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Top cover</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Rubber spacer</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>PCB locking bar</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Mainboard assembly (85 to 265 V AC) replacement kit (includes item 10)</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Mainboard assembly (24 V DC) replacement kit (includes item 10)</td>
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</tr>
<tr>
<td>11</td>
<td>Real-time clock battery</td>
<td></td>
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<tr>
<td>12</td>
<td>Display replacement kit (includes item 15 and 31)</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Display bracket</td>
<td></td>
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<tr>
<td>14</td>
<td>Earth spring</td>
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<tr>
<td>15</td>
<td>Display flexi cable</td>
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<tr>
<td>16</td>
<td>Frame</td>
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</tr>
<tr>
<td>17</td>
<td>Motherboard replacement kit (includes item 34)</td>
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<td>18</td>
<td>Ribbon cable</td>
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<td>19</td>
<td>Side plate</td>
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<td>20</td>
<td>Cable FFC 50-way</td>
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</tr>
<tr>
<td>21</td>
<td>Bottom plate</td>
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<tr>
<td>22</td>
<td>Compact Flash trim</td>
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<td>23</td>
<td>Blank media trim</td>
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</tr>
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<td>24</td>
<td>Hexagonal spacer</td>
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</tr>
<tr>
<td>25</td>
<td>Conductive gasket</td>
<td></td>
</tr>
<tr>
<td>26</td>
<td>Conductive gasket clamp</td>
<td></td>
</tr>
<tr>
<td>27</td>
<td>Blank media board</td>
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<tr>
<td>28</td>
<td>Compact flash board</td>
<td></td>
</tr>
<tr>
<td>29</td>
<td>Plastic snap rivet</td>
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<tr>
<td>30</td>
<td>Configurator board assembly</td>
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<td>31</td>
<td>Plastic snap rivet</td>
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<td>32</td>
<td>Jacking screw clip</td>
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<td>33</td>
<td>Frame clamp left hand</td>
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<td>34</td>
<td>Frame clamp right hand</td>
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<tr>
<td>35</td>
<td>Latch retainer</td>
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</tr>
<tr>
<td>36</td>
<td>Media door latch</td>
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</tr>
<tr>
<td>37</td>
<td>Media door latch spring</td>
<td></td>
</tr>
</tbody>
</table>

Table 2  Parts list – chassis components (post July 2011)
...Replacement parts

Figure 3  Identification of parts – case

Note. Items 25, 26, 27 and 28 are applicable only to analog input module boards.
### Upgrade kits

<table>
<thead>
<tr>
<th>Description</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Totalizer option upgrade kit (requires instrument serial number)</td>
<td>GR2000/1721</td>
</tr>
<tr>
<td>Terminal cover option upgrade kit (includes item 19 in Figure 3)</td>
<td>GR2000/1716</td>
</tr>
<tr>
<td>Ethernet option upgrade kit – German documentation (includes items 15, 16, 17 and 18 in Figure 3)</td>
<td>No longer available</td>
</tr>
<tr>
<td>Ethernet option upgrade kit – French documentation (includes items 15, 16, 17 and 18 in Figure 3)</td>
<td>No longer available</td>
</tr>
<tr>
<td>Batch and totalizer upgrade kit</td>
<td>GR2000/1723</td>
</tr>
<tr>
<td>Math + logic upgrade kit</td>
<td>GR2000/1724</td>
</tr>
<tr>
<td>Math + logic and totalizer upgrade kit</td>
<td>GR2000/1725</td>
</tr>
<tr>
<td>Math + logic and batch upgrade kit</td>
<td>GR2000/1726</td>
</tr>
<tr>
<td>Math + logic, batch and totalizer upgrade kit</td>
<td>GR2000/1727</td>
</tr>
<tr>
<td>Compact flash upgrade kit (includes items 18 to 25, 27 and 28 in Figure 1 or Figure 2)</td>
<td>No longer available</td>
</tr>
</tbody>
</table>

### Ancillary parts

<table>
<thead>
<tr>
<th>Description</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soft carry case</td>
<td>No longer available</td>
</tr>
<tr>
<td>Hard carry case</td>
<td>No longer available</td>
</tr>
<tr>
<td>Demo stand</td>
<td>No longer available</td>
</tr>
</tbody>
</table>