CLAIMS

1. Power supply system for video cameras and for protection cases for video cameras, comprising

a powered device (13) able to split a supply voltage and a data signal from a power supply input line (18),

a plurality of internal power supply lines (14a-14e) connected to a first output of the powered device (13) to power a plurality of electric components (7,8,9,10) via said supply voltage,

characterized in that is comprises

a power supply equipment (19) connected to the powered device (13) so as to receive as input the supply voltage and the data signal split by the powered device (13), the power supply equipment (19) being able to supply on an output line (20) an output voltage and the data signal,

a control circuit (16) operatively connected to said plurality of internal power supply lines (14a-14e) and to said power supply equipment (19),

wherein the power supply equipment (19) is intended to inform the control circuit (16) about the electric power requested on the output line (20), and wherein the control circuit (16) is configured so as to stop or reduce power absorption from one or more of the internal power supply lines in case the electric power requested by the electric components (7,8,9,10) and by the power supply equipment (19) exceeds a predetermined value.

2. System according to claim 1, further comprising a plurality of switches placed in series to said internal power supply lines and controlled by said control circuit, wherein the control circuit is configured to open and close said switches so as to stop power absorption by components connected to said internal power supply lines.

3. System according to claim 1 or 2, further comprising a mode switch (17) for setting a mode of operation of the power supply system, the mode switch (17) being able to switch between a first and a second position to which different maximum power values are associated, the control circuit (16) being operatively connected to said mode switch (17) and being configured to stop or reduce power absorption from one or more internal power supply lines in case the electric power requested by the electric components (7,8,9,10) and by the power

supply equipment (19) exceeds the maximum power value associated to the position taken by said mode switch.

4. System according to claim 3, wherein the control circuit is configured to regulate the input impedance of said powered device (13) based on the position of the mode switch (17).

5. System according to any of the previous claims, further comprising a surge protection circuit (12) connected to said input line (18).

6. Case for surveillance video cameras, comprising

a plurality of electric components (7,8,9,10), in particular at least one fan (7) and an heating element (8),

a support for a video camera (2), and

a system according any of claims from 1 to 5,

wherein the control circuit (16) is operatively connected to said plurality of electric components (7,8,9,10) and is configured to command switch-off or reduction of electric consumptions in case the electric power requested by the electric components (7,8,9,10) and by the power supply equipment (19) exceeds a predetermined value.

7. Method for powering a case (1) for video cameras and a relevant video camera (2), wherein a supply voltage is received via a power supply input line (18) through which data are exchanged, by means of the supply voltage a plurality of components (7,8,9,10) of the case are powered, in particular at least one fan (7) and/or an heating element (8),

the method being characterized by powering the video camera (2) by means of power taken from the input line (18), providing power supply to the video camera (2) on an output line (20) wherein the same video camera (2) transmits a digital video signal, and by controlling power absorption of said components (7,8,9,10) of the case (1) based on the power absorbed by the video camera (2).

8. Method according to claim 7, wherein the power supply to one or more components of said plurality is stopped when the request of power by the components and the video camera exceeds a predetermined value.

9. Method according to claim 8, wherein said components are controlled in such a way that they switch off or reduce their power absorption when the request of power by the components and the video camera exceeds a predetermined

value.

10. Method according to claim 8 or 9, wherein the predetermined value is settable by a user.

CLAIMS

1. Power supply system for video cameras and for protection cases for video cameras, comprising

a powered device (13) able to split a supply voltage and a data signal from a power supply input line (18),

a plurality of internal power supply lines (14a-14e) connected to a first output of the powered device (13) to power a plurality of electric components (7,8,9,10) comprised in said case via said supply voltage,

a power supply equipment (19) connected to the powered device (13) so as to receive as input the supply voltage and the data signal split by the powered device (13), the power supply equipment (19) being able to supply on an output line (20) an output voltage and the data signal,

a control circuit (16) operatively connected to said plurality of internal power supply lines (14a-14e) and to said power supply equipment (19),

wherein the power supply equipment (19) is intended to inform the control circuit (16) about the electric power requested on the output line (20), and wherein the control circuit (16) is configured so as to stop or reduce power absorption from one or more of the internal power supply lines in case the electric power requested by the electric components (7,8,9,10) and by the power supply equipment (19) exceeds a predetermined value;

characterized in that the power supply system comprises further

a mode switch (17) for setting a mode of operation of the power supply system, the mode switch (17) being able to switch between a first and a second position to which different maximum power values are associated, the control circuit (16) being operatively connected to said mode switch (17) and being configured to stop or reduce power absorption from one or more internal power supply lines in case the electric power requested by the electric components (7,8,9,10) and by the power supply equipment (19) exceeds the maximum power value associated to the position taken by said mode switch.

2. System according to claim 1, further comprising a plurality of switches placed in series to said internal power supply lines and controlled by said control circuit, wherein the control circuit is configured to open and close said switches

so as to stop power absorption by components connected to said internal power supply lines.

3. System according to claim 1 or 2, wherein the control circuit is configured to regulate the input impedance of said powered device (13) based on the position of the mode switch (17).

4. System according to any of the previous claims, further comprising a surge protection circuit (12) connected to said input line (18).

5. Case for surveillance video cameras, comprising

a plurality of electric components (7,8,9,10), in particular at least one fan (7) and an heating element (8),

a support for a video camera (2), and

a system according any of claims from 1 to 4,

wherein the control circuit (16) is operatively connected to said plurality of electric components (7,8,9,10) and is configured to command switch-off or reduction of electric consumptions in case the electric power requested by the electric components (7,8,9,10) and by the power supply equipment (19) exceeds a predetermined value.